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A WEEKLY JOURNAL OF AFFAIRS

Relating to the Farm, the Garden, and the Household.

NEW SERIES.

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DETROIT, SATURDAY, DECEMBER 3, 1859.

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DETROIT MICHIGAN.

The MICHIGAN FARMER presents superior facilities to business men, publishers, manufacturers of Agricultura Implements, Nursery men, and stock breeders for advertising.

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The Farm.

The Garden of the Agricultural College

the students having departed, and the season for a family of half a dozen people. This over, it will be a matter of interest to many was all. of our readers to know what has been done in that direction during the past season .- light, part of it being a very hungry sand, and The piece of land that forms the garden lot, that cropped until nearly all its strength had the land to garden form, was likewise pushis a rough, irregular shaped lot containing been exhausted. At the beginning of the ed on with vigor, and of course involved the altogether about twenty acres, but of which term, 14th of April, there was no manure expenditure of a large amount of labor from as yet, only about eight acres have been put hauled on to the graden-there were no which no return could reasonably be expectin oultivation or used for garden crops. It seeds on hand to get ready early crops, or at ed beyond what might accrue from the differextends north and south from the Middletown least there were so few that, for such crops as ence in value between a piece of wild land, road to the banks of the Cedar river, and east and west from the College grounds to a point formed by the road and the river. The west portion has never yet borne a crop, being the location of the brick yard, and very ing the location of the brick yard, and very much cut up into holes and cullic where the track of value between a piece of wild land, and a lot well worked and laid out into a value between a piece of wild land, and a lot well worked and laid out into a value between a piece of wild land, and what amounts of weight this is called the fattening process. Some little avail, and of course, every preparation had to be made to push the work ahead, to try and get in crops in such condition as well worked and laid out into a value between a piece of wild land, and a lot well what has been said and the river. The amount of its value could be placed at less than one hundred dollars, as instead of two acres of garden, as spect, is endeavored to be perpetuated by this is called the fattening process. Some and a lot well work and alid out into a value between a piece of wild land, and of course, every preparation had to be made to push the work ahead, to try and get in crops in such condition as would give their use at as early a day as possing the location of the brick yard, and vill of course save an outlay for their bedies with stock, and what amounts of weight this is called the fattening process. Some and a lot well worked and laid out into a value between a piece of wild land, the what satioths of weight this is called the fattening process. Some and a lot well work and out into a value between a piece of wild land, and of course, every preparation had to be made to push the work ahead, to this is called the fattening process. Some and a lot well what a mount of this is called the fattening process. Some and a lot well what a mount of the stock, and to what a mount of the brick process. Some and a lot well what a mount of the stock, and to what a mount of the stock, and to what a mount of the stock, and much cut up into holes and gullies where the brickmakers had been excavated. A good for two hundred large well grown currents tions. deal of labor was expended during the past which were furnished by Messrs. Hubbard summer in trying to fill up a number of these and Davis, of Detroit, and which were set in holes, and get this part of the garden into rows six feet apart. These currents were of some kind of arable shape. This portion the Fertille de Pallua and White Grape variwas sown with buckwheat the last week in eties, and have made a very thrifty growth June, but the frost of the fourth of July last during the present season, promising a reasonseemed to affect a portion of the field, as the able crop next year. Besides these, about seed, though good, did not grow, and that one hundred more currants have been set out portion of the crop which did come forward, along the main avenue, alternately with a was completely ruined by the frost of the number of the best of the seedling peach 28th of August. The eastern division of the trees, which it was thought fit to try for varilot is also much broken in surface, a ravine eties, as no other use could be made of running through one side and separating it them, being too old to use for budding pur-from a piece of new land, which was plowed up for the first time the past season, and sow-ame manner and set out with strawberries, ed with turnips. Along the river bank, also, the sets being furnished from the plot alis a tract of bottom land, which is overflowed ready mentioned. A very valuable asparagus each season, and which extends back for some bed was likewise prepared and set out, and distance until it reaches the bank that forms now gives promise of yielding a very fine the boundary of the higher ground on which erop if well taken care of in the future. Crops

to that time, as there were no hands to do it. the amount of ground which they had before value for the production of saleable articles. The Mithigan Farmer, to that time, as there were no hands to do it. Some of the students, however, had remainoccupied, of extending the wide central road
This assertion may or may not be correct, but ed over from the previous term, and one of through the garden. and of cutting out and as yet very few are able to say to the contrathem had been interested with the garden forming beds and walks between them from ry. On the large tracts of land, where cattle Hence the richer the food of the animals, work, at which he continued the whole season, and acted very efficiently in this department so far as it has been pushed. Three hot bed frames had been started on the 21st of March but as no provision had been made the previous season for a supply of the proper material and soil to give the plants started in them the best conditions for their growth, the products did not amount to much for use, with the exception of a quantity of tomato plants and cabbages, which, though somewhat slow of growth, owing to the poverty of the soil ent moment \$100 to \$150; as yet it has not though somewhat late. When we first examt to these now may be added an equally amined the garden, with a view to raising large plot of pie plant, all the plants that had crops for the use of the boarding house, it been growing for the past season having been to the subject. was found that there had as yet been but very taken up and divided, and set out with the little progress made in reducing a large por- design of having enough for use another tion of the lot into any condition as a garden. year, without purchase. A small portion, probably about two acres, had been cleared of stumps, and had been in taking care of the usual crops grown, but that if it gets neither more nor less, its weight to sustain a given weight in any animal, and say laid out in temporary beds for the raising of all of which suffered severely from the prevavegetables, and a small nursery of quince lence of late frosts. When the frost of the stocks and of seedling peach trees had been 3d of June last occurred, the whole of the grown in rows, some of which had been bud ded, but there were no plantations of small the cucurbitaceme tribs which had been set the force exerted to do the work, rapidly confruits on any scale which would prove of the out, and were promising both early and large least service for a crop, neither were there beds of asparagus, nor of pie plant, and a large portion of the ground in the garden lot had only been previously used for field culture. With a boarding hall containing at least one hundred persons, which were to be supplied with vegetables for the season, and this disaster not checked their growth. Of are as yet only demonstrable by the experileast one hundred persons, which were to be which ought to be supplied with small fruits, also, at the earliest possible period, it was deemed important to lay out beds of vegeta-

ply for the future. In the garden, there was a small bed of seedling asparagus that had a two years' growth, a little patch of strawberries contain- State. ing several varieties which had been allowed to intermingle with each other, and a few currant bushes, that had sprung from cuttings, with a very small lot of Myatt's Victoria Rhubarb, and also some very young plants of The garden operations of the Agricultural Cahoon's seedling, probably enough to afford College having been closed up with the term, during the season enough of this vegetable

ensure at least the beginning of a home sup-

The soil of the garden lot is naturally very

land that had never been put to any such use are raised like wild animals, and allowed to before. Much of it was also occupied by stumps that required grubbing out, and in some places holes and hollows had to be filled np, that the beds for the vegetables might be made level and uniform in appearance. All work of this kind upon the garden is a permanent improvement of which the full benefit can only be felt in succeeding seasons. For instance, the asparagus bed, if in any private garden or in a market garden, would be valued at not less than worth at the presused for the beds, finally turned out well had time to repay the institution a cent, so when transplanted into the open ground, with the whole of the other beds enumerated,

crop of early beans, with all the plants of if it receives no more it will be found that crops, were completely destroyed, and the frost of the tenth of the same month was so severe that it destroyed a'l hopes of the crops of early potatoes, which the previous frost had spared, and even froze the young peas in the pod and prevented them from filling to has to be increased, but in what proportion, their use in the boarding hall, the accounts he possesses of each animal that may come bles, and of small fruits on a scale that would will exhibit in some degree that one portion say that for every pound of flesh, or of weight of this institution has made a fair return for that is to be gained by an ox or sheep, so dent to it, and which have been more severely given. felt in this vicinity than in any other in the

> Even after the late frosts, which at the same time cut us off from the results which were attempted to be gained by the sowing of many and various kinds of seeds for trial and comparison, the early frost of August toes, melons and summer and winter squashes, which by their rank and rich growth a week previous had made the garden a delight to the eye wherever it rested.

Whilst the work of growing the crops was being carried forward, the work of reducing dollars, as instead of two acres of garden, as A large plot was at once prepared and there was in the spring, there are now more water holes, clay pits, and sand pits of the trenched, worked with a dressing of manure than six ready and prepared for future opera-

(To be continued.)

Some Notes on Fattening.

farmer to be master of in his business, is that barnyards of this State. Their owners would which involves the fattening of his stock. So tell us that they had "during the winter all little is known of the action of food on the they could eat, but they had not grown a last spring. They have done so well, and animal system, and it is so difficult to obtain pound heavier than they had been in the fall given him such satisfaction that he has redata from which general principles can be previous." They had filled their bellies, and evolved, that even with all the aid that the they had made a fine yard of manure, but progress of Physiology and Chemistry have beyond these two actions, they had gone no the cows spayed last spring, a fine young Durmade within the last twenty years, and especially with reference to agriculture, very little weight or size, and consequently they had she did last May, a few weeks after calving. practical advantage has been derived from added nothing to the farm. In this connection, The other, an old cow, is now in rather low them in rendering stock more readily and also it may be well to add, that it was very more certainly profitable Most farmers questionable even whether the menure thus Their milk has varied in quantity, according will tell an inquirer that there is no profit in made was of more value to the farm than feeding stock, or at least little remains after chopped or ground straw. This is especially the expense of the crop on which they are the case with straw and marsh hay. The arthe ordinary condition. This gentleman keeps

come to their growth with little or no reference to their age, or size or profit, and where afterwards they are fed on great amounts of food raises the weight of the unimal to a pargrain, because it is more profitable to send ticular point where it remains stationary, that the crop to a distant market in the shape of if the weight would be increased beyond that beef or pork, than to transport it in any other point, a regular additional supply must be way, cattle and hogs are known to be profitable; but on a farm of the mixed busbandry order, where each department of the farm is after reaching a particular point, whether it reference to all the other departments, and a greater weight is needed, a still further supa difficult matter, and one which it is worth while to look at with the aid of all the science and knowledge there is known as applicable

severe work, the food requires to be increased beyond what it needs if not at work, because sumes a portion of the animal weight, which is not made up by the same amount of food that kept the animal stationary when at the value of the crops raised afterwards, and ence of the feeder and the knowledge which this season even with all the set backs inei- much of certain qualities of feed must be

hoxever, that whilst a certain weight of food is consumed by an animal, the whole of it can ed to them, and take up only that part which of the excretions, of the carbon contained in an inference from this fact, it must be obcame and destroyed luxuriant crops of toma- of the substances carried off by the perspira- fully fattened, the last increase of weight is when an animal has the faculty of digesting a large amount of food, and assimilating from a small fat one." it more material than is needed to supply the waste caused by its vitality, it is in reality layup a store of the food which is given it, and is how, and what amounts of food, he must spect is endeavored to be perpetuated by table, as they increase in weight, a like adbreeders. When the animal is fed on food dition of food does not cause a like increase of which it eats, but from which it cannot extract weight; or in other words, whilst in one conthe food it needs, it passes off as excrement dition of the animal, a bushel of corn may all such matter, and though it may feed well, bring 60 cents, in another condition it may it decreases in weight, and becomes poor .- not bring the feeder over 45, and where the This is the case very frequently, with many One of the most difficult subjects for the animals which we have often met in the is located the garden proper.

It will be borne in mind that the College term of the present season commenced on the 6th of April, and that of course little or no work could be done in the garden previous

The sum of the trop if well taken care of in the future. Crops fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed is paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop on which they are fed in paid for, and the cost of feeding it out is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop is added. In fact it is often argued that all the whole system is impoverished by the expanse of the crop is added. In fact it is often argue

manner by the action of the stomach for material to supply the place of that which the body must use up if the animal would live. richer the manure.

Again, it has been ascertained by actual trial, that a certain weight and quality of given. Nor does the watchful care of the feeder stop here; for it must then be decided calculated to perform its own functions with will pay to keep the animal any longer, for if without being a burthen to any of them, it is ply of food must be given, and that food likewise adequate to create solid flesh or fat. If. when a particular high weight is reached, the animal is reduced in its rations to the amount of food which was given it when it was sta-It is known to every feeder and worker tionary at the lower weight, it rapidly loses among stock that every grown animal requires all it has gained, and falls very quickly again a certain amount of food, to keep it up to to the point from whence it started, thus pro-The other work of the garden has consisted what is known as its ordinary condition, and ving that a given amount of food is requisite remains stationary. If it is put at hard or that it is from the quantity and quality of the food that weight of flesh or increase of fat is formed.

Again, a given amount of food does not produce a constant effect in different conditions of the animal. For instance suppose that an ox is fed at the rate of a peck of corn meal per day until it has gained an additionwork. Again, if it is desirable to make an al weight of 100 pounds, at which it remains animal weigh more from a given time its food steady; an additional peck of meal will not make it gain another 100 pounds, but only a stationary weight of about 80 pounds more, and so on, a third addition making a still smaller gain. A distinguished Scotch writer on this subject, explains this effect of differwhich will be published in another number under his charge. It is not yet possible to ent quantities of food thus: "A lean animal is able thoroughly to exhaust the food given it, and to absorb a considerable proportion o nutritive matters contained in it; but when it becomes very fat, or its supply of food is Recent experiments have demonstrated, very large in amount; its digestive organs are unable to assimilate all the nutriment supplibe accounted for, and that when the weight is in the most readily digestible state. As the carbonic acid expired by the lungs, and served that when an animal becomes nearly tion are added together, they are found to obtained by the expenditure of a large be almost exactly equal to the food. When amount of food, and by an absolute waste of the process of digestion is carried on in a nutritive matters; and practically it becomes healthy animal, it gets rid of the food by two of the greatest moment to determine the point methods, either the stomach uses the food to beyond which it is no longer economical to supply the wants of the animal, or it passes feed an animal. It may also be inferred that a off the portions which cannot be used. Hence large lean beast may require a smaller quantity of food to keep it a constant weight than

It will be seen, therefore, that one of the problems that a feeder of cattle has to solve, animal is still further advanced, it may not even bring 25 cents per bushel.

Spaying Cows.—We learn that a gentle-man at Newburyport, had two cows spayed cently had the operation performed on another. They are all fine milkers. One of flesh and has fallen off somewhat in her milk. to the keeping they have had. But they have neither of them fallen off as much as cows in

The Use and Abuse of Manures.

Manures are frequently misapplied in farming as in gardening, and such things occurring through a whole kingdom may be regarded as a national loss.

And it is not only a loss as to the manure itself, but a loss in the produce; instance such things as an over-manured plot of potatoes smothering each other, and, in the end producing a very inferior article to those on moderate soils; or pear trees highly manured and producing little but spray. There are three distinct classes in vegetables as to their demands in regard to manures: First, what may be termed gluttonous habits; secondly, those which on fair soil are better without manure; and thirdly, things of a medium habit in this respect.

In the first class we may place our cauliflowers, celery, asparagus, lettuces, spinach endive, cabbage, and the Broccoli family generally. As those which are better without manure, I may name radishes, beets, and even carrots, if the soil is in good heart, and parsnips. Most of the other kitchen-garden things may be called of the medium class.

As for asparagus, abundance of manure is indispensable, both under the plants, above them, and also at the sides of the beds.-Celery is next to asparagus in this respect; but it is my firm opinion, that such as are intended for late or spring use are far better with a moderate quantity. I feel assured that heavy manurings force such a powerful root action, even as early as February, that plants of any strength make an effort to grow; and as we all know, the first effort in this way is to run to blossom. The Broccoli family are known to require liberal manurings; but in consequence of the "club," the best of manurings may be defeated. Still I believe that spring Briccoli may be over-manured; extreme grossness but makes them more succeptible of a severe winter. Cabbages revel in manure. Lettuces may be grown tolerably fine on sound soil without manure; but to have a lettuce crisp, succulent, and of noble bulk, give it plenty of manure. The same may be said of endive.

Amongst the moderate class let us examine potatoes. I have a few lines in the kitchen garden here (Oulton), of what is called the French Kidney-a singular tuber as compared with ordinary potatoes, being like a fir cone: surely it must be a species. These I grew nearly thirty years since, and proved that they were totally unfit for our kitchen gardens; and why? Simply because there is so much that the plants run wild; and as for produce, never was such a host of rubbish seen, and the plants extended five feet on either side.-Now, these potatoes, which I have known excellent on ordinary unmanured soils, are splendid roasters, and, indeed, are, if boiled, a ass of flour. But we may meet with cases of the same kind in our fields.

Observe wheat on highly manured soils, or even as following root-crops on soils highly enriched. How frequently do we see it prostrate and seriously injured. But let us turn but I have heard of another individual who inside of the ears and other parts not thickly to fruits. There are some kinds which are rendered unproductive in the extreme by manures in the soil; such is the pear, for instance. Then others will do with a medium quantity; this includes the majority. Some few will bear heavy manurings; of such are the gooseberry, raspberry, white current, and this corn can be of any use-and that as fuel accustomed to fatten my cows that failed for a few kinds of apples. As for the pear, in on the prairies; from five to seven sticks of dairy purposes, by age or otherwise, for many general, manure in the soil is out of all ques-stove fuel might be obtained from each stalk years, and being on the lookout for causes tion. There are, perhaps, a few kinds, if on It is useless as a grain crop, and nearly so as of known results, I have observed that the quince stock, which would enjoy a little a forage plant; mine was fed to stock and the those known to give good milk, made most manure, such as Louise Bonne de Jersey and butte are laying on the ground from four to thrift in tallow when fed to fatten. Hence, Winter Nelis, pears either naturally great six feet in length, resembling sled stakes, al- the conclusion, that cows that handle well in tions in political economy which I shall not every locality; and everywhere he found this vers, or of delicate habit. But with several kinds a generous loam is even too good, dry, probably ten feet would have been left. especially if too deep. Apples are so various in habit that it is difficult to class them as to rich soils. There are some kinds which bear on the young wood, such as the Manks Codlin, the Ribeton Pippin, &c., and I have alamount of manure. But the chief of them, generous soil.

little work to do: give them, in general, a they begin? With the first tool or implefree loamy soil, and they will manage the rest themselves. It is rather the older and hard-cropped trees that need extra assistance, the season, let every plow, harrow, and cultiva-and here it can scarcely be misplaced. It is tor be taken to the implement house, presumnot only a question of manuring, but, in addi- ing, of course, that every well-conducted farm tion, a medium for the encouraging of surface fibres. It needs little argument at this period. to prove the immense advantage of this as a regular avetem

These are times in which the manure question has become one of the most important in the kingdom. What between the guano importation, which concerns thousands, and the bolt should be seen to; the adhering dirt great sewage affair, we may plai ly see the importance of using manures with discretion. In these parts, the centre of Cheshire cheese making, scarcely a farmer of any importance but buys guano or some newfangled srtificial manure: and this, on farms where from twenty to eighty milking cows are constantly kept, besides young stock, horses, &c. They. moreover, buy immense quantities of bonemanure, it being found the best renovator of dairy pasture. So that we may see that this nanure question is a serious affair.

The management of manures in the dungyard is a question still deserving serious attention, for it is still capable of much im provement. I much fear that we may fairly ay that, what between evaporation and water-waste, the country loses on the average nearly twenty per cent. R. ERRINGTON.

"Fall Fodder"-Peabody's Prolific.

Mr. EDITOR:-I suppose quite a number of your subscribers planted the famed variety of corn which stands at the head of this article. I have been waiting, and watching each number of the FARMER to see if some one or more would not give the result of their operations in the matter-only one man has entioned it, and he thinks it should be called " profligate corn."

The writer of this procured one small ear of the above mentioned corn, and planted it according to directions: two kernels in a hill; but, like some people, it cannot bear prosperity-I gave it a rich soil, and it would not of constitution and capacity to eat what is mature. If there could have been a way devised to winter it, and give the wayward stuff another summer, there might have appeared some sound corn. The "profligate" grew inches in circumference, being eight or nine body, and straight back. humus in the ground, without any manure, feet to the top of the upper ear. Wishing mainder of the field, about the 12th of Sept. stalks were left standing, to ascertain if it gathered October 20th, at which time it was just fit for roasting.

I can conceive of but one way in which though they were fed green; had they been

Clinton, Nov. 11, 1859.

Take care of the Implements.

Examining a Mowing machine a few days ways found that such will bear a liberal since, I observed, painted upon a conspicuous part of it, the words, " Keep your knives on espaliers, or, indeed, in any dwarf form, are shorp." The manufacturer had, I presume quite content with a sound loamy soil. Trees learned to know that very many of the failin a trained state, and while young, will be ures on the part of farmers to make their completely spoiled with manure in the soil, mowing machines work satisfactorily, proceed-unless it is some barren material. Here, again, ed from a want of attention to the injunction a plain loamy soil is amply sufficient. Of contained in the four words so conspicuously course, in all these fruits there an exceptions. painted upon the machine. It seems strange Cherries are partial to light and free soils, that any such admonition should be necessaand, therefore, enjoy a moderate amount of ry, but "facts are stubborn things," and it manure, especially such as the May Duke cannot be denied that too little attention is than the ordinary bee, and, having a longer full confidence. class, and the Morello. Apricots enjoy a given to our implements, when in use, or when moderate amount of manure in addition to a not in use. No nation expends so much money for implements as the American, and none hive of these bees is said to be sometimes or to keep a constant supply of these manures But, after all, how much better a command have we over fruit trees by surface them. In fact, the purchase of improved implements is one of the will not be distributed until 1861, by which that farmers may get them without difficulty dressing. Here we can do as we like; but heaviest taxes imposed upon us; but it is time it is expected to rear from the swarm at the time they require them. They should sold to James Horton, or Bourton, one hunddressing. Here we can do as we like; but heaviest taxes imposed upon us: but it is time it is expected to rear from the swarm at the time they require them. They should put plenty of manure in the soil that fruit equally clear that we double our taxation in now is transits, stock enough for six hund-be sold, as in England, according to a value red and and tax transits, stock enough for six hund-be sold, as in England, according to a value red and and tax transits, stock enough for six hund-be sold. trees are planted in, and they will do as they shis particular by our abuse of them. The red hives, statement of a second of the particular by our abuse of them. pril and that or course little or preparations were made, and the work carried which the stock kept are notable to consume, great proportion of indigestions were made, and the work carried which the stock kept are notable to consume, great proportion of indigestions were made, and the work carried which the stock kept are notable to consume, great proportion of indigestions were made, and the work carried which the stock kept are notable to consume.

like. This latter position is not always consistent with profit. Besides, young trees in this is the proper time, therefore, to direct general do not need much manure, they have ment they meet after reading this. If they have done with plowing and harrowing for is provided with one of these indispensables. Every shovel, hoe, spade, or rake should be similarly cared for, and the first leisure hour, or rainy day, appropriated to putting them in proper order for use at any moment. this I mean, that every part of every too should be carefully examined; every nut and should be washed from both fron and wood work; and this should be done before the bright or polished parts, as mold-boards, &c., begin to rust. Apply a little tallow or oil to these parts; procure some good oil paint, (the best is the cheapest,) and give a coat of it to every part of the wood-work. One coat of paint is worth half a dozen of varnish, at least such varnish as is usually applied to agricultural implements. Examine the mowingmachine knives, file or grind out the nicks, put a good edge on them, and after oiling them to prevent rust, lay them carefully aside. Remove all the gummed oil from the gearing and journals of your mowers, thrashers, cornshellers, &c.: have the blunted harrow-teeth taken to the smith and pointed, and do not forget to have the plowshare laid anew, and the coulter or cutter of the plow sharpened. In a word, have every thing in such order that it will be ready when wanted. This. properly attended to, will save to one half of our farmers one half of the annual outlay for implements. Try it for one season, and my word for it the system will be adopted sire to economise his expenditures .- Cor. Farmer and Gardener.

Points of Cows.

A. L. Fish, a well-known dairyman of Her kimer county, N. Y., gives in the Little Falls Record, some good remarks on the points of the first importance. He rightly observes, also, that the indications of such a constitution are a thick mellow skin, with soft hair, a twelve feet in height, the stalks measuring six bright, fall eye, broad loin and hips, deep

"Cheese dairy-men [and city milk-men] usushown the silk. Four of the most promising known to make a good yield of cheese that selecting cows that yield the most milk per day or season, in arriving at a proper stand-Mr. John Clark, of Clinton, planted a quart and of excellence for the best. * * * The of the "profligate" on the river bottom; some quality of milk a cow will give, is indicated of which reached the height of fifteen feet- by hair and skin, and yellow color of the skin grew it to the astonishing height of seventsen covered with hair. I have never known a feet! The advertisement said this corn was cow, with soft, fur-like hair and mellow skin, raised on Long Island; it is very strange to appearing yellow and gummy at the roots of me how a corn of such gigantic dimensions the hair when parted with the hands, that was should mature in the latitude of that Island. not a good butter cow, and when fattened, would mix tallow well with flesh. Having been judged by a plainly marked design of nature prominent. These are: in her physical structure. Instead of heavy head, horns, neck and shoulders, and comparatively light hind quarters, which is characteristic of the opposite sex, she should show an opposite design, by a feminine countenance, light head, neck, and shoulders, widening backward from her chest to the loin and hindquarters, where the most strength is requir-

> Importation of Foreign Bees .- The Agricultural Bureau of the U.S. Patent Office have received intelligence of the shipment from Havre, France, of a large swarm of

the could be done a the garden previous on or extending the garden beds over double or in other words the manure made, and its which has been searched in the most thorough . New England Farmer.

English and American Farming.

In the November number of the Pennsyl vania Farmer and Gardener, E. Pugh, who has recently returned from a visit to Eugland, thus gives his idea of the contrast he has noted between English and American Farming. He is evidently one who has given his attention to the subject, and is capable of drawing comparisons on such a subject, of some value. He savs:

e says:
"Yet no American who has an interest in the subject of agriculture, can have had any considerable opportunity for observation in the Old World, without feeling that, in a great many respects, the American farmer has yet much to learn, before all departments of his art are brought to that degree of perfection to which they have attained in many parts of Europe, much less to that degree to which it is desirable to see this art brought, and to which a general consideration of all the facts and principles that bear upon agriculture leads us to believe they may be brought.

In no country in the world has agriculture been brought to that high degree of perfection to which we find it developed in England. In none has more attention been devoted to the subject, and in none do we see so much wealth, power, and intelligence, concentrated upon so limited an area, as we find in Great Britain. It is true that the English agricultural laborer is in a most low and degraded moral and intellectual position, and that, in many instances, his immediate employers, the farmers, are not possessed of the intelligence which is so essential to the development of a high state of agricultural production. Yet the land-owners are, as a rule, men of a high degree of intelligence, with enlarged and liberal views upon the subject of agricultural improvement, and this has led to a more generby every one who has any disposition or de- al adoption of all the various auxiliaries to agricultural production, and to a higher investment of capital in the improvement of land, than in any other country. There has been a more general union of the interests of the agriculturists in agricultural associations, and this, with the greater concentration of capital upon the same area, has exhibited indications of greater strength in disposable cows. He very properly considers strength resources, as manifested in the cattle shows and agricultural fairs of that country, than in offered her, at all seasons of the year, as of any other part of the world. And the contrast between the highly cultivated soils between Liverpool and London, and the unthrifty husbandry that we see in crossing New Jersey between New York and Philadelphia, is no less painfully striking to an American traveller, than is the contrast between an Ento sow the ground, it was cut up, with the re- ally select cows that yield the largest amount glish and an American cattle show. And of milk, because they depend more upon the even our old Chester County here, which At that time full one third of it had not quantity of cheese than its quality, and milk is some of us like to call the Eden of the State, exhibits in many places a state of agriculturwould make but little butter, and poor at al production, upon which an English agriwould mature; the ears from these were that. But I am not in favor of the rule of culturist would starve, if tolerated in his own country.

Now this state of things should not exist Although it may be many years before Chester and Lancaster and Bucks Counties, can exhibit such prodigious agricultural returns as Norfolk, and Berkshire, and Cheshire, yet there is no reason why the entire agriculture of the Atlantic States, should not approximate more nearly than it does now, to that high state of development which we have just referred to in English agriculture. And the attention of the farmers of our country, as a body, cannot be too earnestly called to an inspection of the cause of the great difference which now exists between the state of our agriculture and that of Great Britain.

A full consideration of all these causes, would involve the discussion of many quesnotice here, but shall refer only to a few of

1st. The want of a rational system of rotatimothy grass, and, more recently, sugar cane, -all cereal or grass like plants, which make a from the soil, and thus afford no rotation.-Against these, it is true, we have clover, but this is not sufficient; we should have beans, peas, trefoil, turnips, mangel wurtzel, &c.,

2d. The want of good artificial manure, made at a minimum cost, (which is only possible when very large capital is invested in

the American bees. The product of an old ed in this business, to enable the manufacturhive of these bees is said to be sometimes or to keep a constant supply of these manures market. Col. C. R. Estill, of Madison coun-

competent chemist, who should be appointed by the State or the State Society, and whose special business should be to look after the farmers' interest, and to save them from the shameful impositions of quack manure manufacturers, which at the present time have well nigh produced an entire loss of confidence in artificial manures on the part of the farmer. It may be safely asserted that the farmers of Pennsylvania are annually being cheated in quack manures, to an amount equal to more than ten times what it would cost to employ the best chemist in the world to save the

Prof. Voelcker, chemist to the Royal Agricultural Society of England, and also professor of chemistry in the Royal Agricultural College at Circucester, recently informed me that he had just examined a number of American artificial manures, nearly all of which were very bad, and several of them almost worthless. An American fish guano which I analyzed myself, at Rothamsted, England, was found to be entirely worthless, or rather it was about as valuable as a good garden soil, which I analyzed at the same time.

And Mr. Lawes, of Rothamsted, England, who manufactures about thirty thousand tons of superphosphate of lime annually, assured me that, so far as he had seen the American super-phospates, he believed it possible to send them from England to America, and sell them at a cheaper rate than they were sold here; estimating, of course, the real value of both, according to the data afforded by analvsis. It must borne in mind, that it is not here stated that we have no good artificial manures, or that none are produced at the minimum price referred to, but it is mest emphatically asserted that the farmer has not sufficient means of distinguishing between the good and the bad, and that he is constantly being most shamefully cheated by quacks, and that the result of this is a great loss of confidence in artificial manures.

3d. The want of a more general intelligence with regard to the whole subject of manure, rotation of crops, political economy, &c., such as can only result from a system of education specially adapted to the wants of the farmer, and which can only be attained by a thorough training in institutions specially intended for this purpose. Such institutions are not so essential in England, since the land there belongs to large landholders, whose great wealth enables them to take advantage of means of education beyond the reach of our American farmers.

4th. The difficulties of getting laborers of good, industrious, and temperate habits, who are in every way trustworthy. In America a man who owns one hundred and fifty to two hundred acres of land, may hire a few laborers and by working with them and constantly looking after them himself, may be able to get sufficient work from them to insure a easonable income from his capital involved, but if he don't work with them, he will rarely be able to do so. A consequence of this is, that large capitalists will not invest their money in land.

The Dust in the Air.

M. Pouchet finds that the dust floating in the air contains the detritus of the mineral constituents of the globe, atoms of animals and plants, and the finest debris of all the materals we make use of. But one item he especially points out, viz: Wheat starch, which is invariably found in dust, whether old or recent. Surprised at the quantity of it present among the arial corpuscles, M. Pouchet investigated the dust of all ages and of wheat starch present. "I have found the judged to give rich milk, the quantity to be a great many special causes that are most starch," he says, "in the most inaccessible carners of old Gothic churches, mixed with dust blackened by six or eight centuries of tion of crops. We have wheat, corn, oats, existence; I have found it in the palaces and cans of the Thebiad, where it may have dated from the time of the Pharaohs ; I have found constant drain of nearly the same materials it in the tympanic cavity of the ear of a mummified dog, which I had found in a subterranean temple of Upper Egypt. In all countries, in a word, where wheat forms the staple of food, starch always penetrates into which figure so largely in English agriculture. the dust, and is met with in greater or less quantities."

Mules .- Messrs. W. B. Rogers and W. R. their manufacture,) and sold by responsible Colcord, of Bourbon county, sold, the other Lombardy bees. They are of larger size manufacturers, in whom the farmers can have than the ordinary bee, and, having a longer bill, are able to suck flowers inaccessible to

There should be a sufficient capital invest.

There should be a sufficient capital invest. amounting to \$17.000 -Ohio Farmer.

The Garden & Orchard.

The Underdraining of Orchards.

Nearly every orchardist who has tried draining, affirms that underdraining is of the greatest service in rendering an orchard more certain in its yield, and more to be depended on as a source of revenue. And yet but few orchards are drained with any regard to system, and we doubt if there is one, outside of a regular nursery establishment, thoroughly drained in the State, much as the interest is that lies in the production of fruit. Yet draining ensures a moist subsoil without which in a dry time, no fruit can come to its full maturity. If the soil is naturally wet, draining makes it sufficiently dry to promote the healthy growth of the trees, and to prevent the effect of late frosts proving injurious .-Draining also raises the temperature of the soil, and this explains why it has the power of counteracting late frosts, as the high temperature of the soil will necessarily pervade the tree by means of the circulation of the sap. "If," says an experienced writer, Thos. Mechan, of Philadelphia, "the subsoil is dry, the fruit will fall in a drought, or if the fruit does not fall, the leaves will, when the fruit may as well-for as soon as the leaves fall, or in any way become extensively injured, the fruit will be worthless, if it even seems to ripen."

If we take a square shaped piece of land of any given size and design to make it an orchard, it can easily be ascertained how it can be drained, and what will be its expense. If the orchard is to contain four acres, with one side longer than the other, and as an orchard of the usual size and form in the State is generally laid out, it will be 20 rods in length one way, and 32 rods the other .-If the trees are planted in rows two rods apart, commencing with a row one rod distant from the fence, there would be exactly ten rows of trees, and each row would contain 16 trees, or 160 in the whole lot, which seems to be a small orchard in extent, but in reality, if properly treated, it would be of more profit than many much larger. If desirable the trees may be placed only a rod and a half apart in the rows, which would allow on the same lot, 240 trees. Many probably would prefer to have the trees set in quincunx form, and for a large orchard, which would probably have to be worked part of the time, the straight rows running north and south are to be preferred, as permitting a more easy tillage.

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The thorough drainage of such a planned orchard can be easily laid out, and carried on at any time after the trees are planted, but we believe that eventually it will pay better to have the drainage all perfected, and the whole lot subsoiled before a tree is set out.

The land being of the shape mentioned, and 32 rods in length in one direction, and 20 in the other, no matter which way the rows of trees run, if the character of the field permits a fall for the drains on either side, it will be necessary to determine before setting out the trees in what direction the drains must be made. Where the rows of trees are two rods apart, and the rows run the long way of the lot, the drains may be at first laid down so as to include two rows of trees between each drain, and this would give for the lot five drains, each 32 rods in length and 66 feet apart, from each other, and make in all 160 rods of drain. The main drain that would run across the lot, and into which these orchard drains would empty would add but twenty rods more to the whole, and make in all but 170 rods. If, at any time after the drains are laid down thus far apart, it is found that the drainage is not effectual enough, but that the soil needs more, lines of drains may be run up between each row, making the drains each but two rods apart, and in the centre between the rows of trees. Whether this will be needed, can be easily made known in the course of a year or two by trying a part of a row with a drain on each side of the trees; for the rows of trees surrounded by the drains will be a perfectly reliable index in this respect as they will show by the superior thriftiness of growth, the greenness and fullness of the leaves, the ripeness of the wood, and if in bearing the better quality of the fruit, its perfection in shape, its freedem from scabs, and the quantity produced by the trees, whether the drains are effectual at the dis tance which they have been placed.

It will be readily seen that to drain a small orchard, and thus put the ground in condition to grow the trees in the thriftiest state need not cost a great deal, if the owners are when the ground is stiff, and the subsoil hard, a man used to the business ought to manage to cut a ditch an average of three feet in depth and six inches wide at the bottom, at

the rate of five to eight rods per day, accor- and wind; but it should never be forgotten ding to the soil he has to work in, and to cut that for equal success, at least quadruple the the ditch and fill it in at the rate of 20 cents breadth of roots will be neccessary for trees per rod is not calculating the work too severaly If laid down with tile the whole of the drainage ought not to cost over 45 cents per rod, the tile being brought to the drain at the rate of 25 cents per rod. The whole outlay therefore for the drainage of four acres of orchard in a permanent manner, would approximate pretty closely to \$20 per acre-But all those who have given the subject a fair trial, and have experienced the benefits of such an outlay, invariably bear testimony that suce an outlay is one of the most judicious that can be made, and that the certainty of return counterbalances any risk that may be felt in making such an investment.

Ornamental Tree Planting.

Among those who view the human family in a moral light, man is frequently characterized at the religious animal, as regarded by the worshipers at the shrine of Mammon, he becomes the hoarding animal; again, by the devotees of the gastronomic art, he is regard ed as the cooking animal; while, by those who bow at the shrine of Ceres and Pomona, he is, very appropriately, regarded as the plant-

The propriety of this last cognomen will be acknowledged, when we consider the periodical mania which annually afflicts almost the entire race; under the influence of which they make their way to the forests, the fields or the nurseries, and return, loaded with a heterogeneous mass of materials, which they proceed to plant about their dwellings and public resorts; in a large majority of cases only to fall a prey to the ignorance or neglect of those who have, at so much expense of time and labor procured their removal.

That this mania is not without ample oc casion, can hardly fail to be obvious to one who observes the many, and often pretentious dwellings that stand, stark and treeless, along our highways. With the large amount of tree planting annually done for the supply of this lack, it may be surprising that the improvement is so slight; but this surprise will, to some extent, disappear when we consider that, probably, less than one tenth of all the trees planted in the country, for ornamental purposes, survive the second year; while, of this tenth, very many, ultimately fall a prey to ignorance or carelessness, in their removal or subsequent treatment.

Of the numerous causes which conspite to bring about so extensive a failure, perhaps no one is more patent than the prevailing passion for the planting of large trees, which very naturally, grows out of an inordinate anxiety to realize, at the earliest possible moment, the results of our labors :-- an anxiety which is too often indulged, even by intelligent planters, in despite of the dictates of their own better judgment. Indeed, so general has this practice become, in connexion with ornamental tree planting, that wherever we go, in city, village or country, during the usual planting season, our eyes are greeted with loads of trees, wending their way to the public grounds, or already planted in the yard or road ways, which the merest inspection shows to have been grown in the shelter of thicket or forest; and, consequently, drawn up to an inordinate height, from the lack of light and air, while the roots, forced to travel to a great length in search of nourishment, have been almost entirely destroyed in the process of sidered as doing well. removal; leaving only a few inches of each attached to the stump, and totally destitute of the fibres, through which, alone, the tree ment from the soil. Such trees, with their straight, smooth trunks entirely unfitted to an open exposure, too often constitute the "beau ideal" of the self constituted connoisseur in such matters, and are planted only to die at once, or to linger out a few months of sickly existence and then make way for another similar batch.

The writer would not have it inferred from the above remarks, that the successful planting of large trees is impossible; but, that the principles on which success depends are, too generally, disregarded.

Doubtless, the most sure and satisfactory way to secure a healthy and reliable planta tion of large sized trees, is to secure those grown from the seed, in the nursery, and ransplanted every second or third year; by which means a compact head is secured, together with such a compact mass of fibrous roots, as enables us to remove and replant them with comparatively little check, and at near a tile factory, if not, let them use poles or a relatively small cost, even when of large brush, or straw, but be sure and drain. Even size. Failing of a supply from this source, the next, and we may as well add, the last resort, should be to the open fields, or the borders o the forest, where trees have grown p exposed to the full influence of light, heat

taken from such situations, as compared with properly grown nursery trees of the same

When such trees are to be transplanted previous to the next summer, it can be done with greater safety and economy, by taking advantage of the winter frosts, to remove them with a ball of earth attached. To prepare them for this purpose, a trench shound be dug around each tree beshound be dug around each tree be drills or ridges as are described above. Care is fore the setting in of freezing weather, of a depth sufficient to cut all the principal roots. This trench should be dug at a distance from the tree commensurate with its size, and should be refilled with straw, leaves or any litter that can be easily removed when the surrounding earth is frozen. To facilitate the freezing of the ball of earth, the snow above it should be constantly removed, or carefully trodden down as often as a fresh fall occurs.

The spot where the tree is to be planted may, very appropriately be treated in a similar manner, by digging the hole, and partially filling it with rich surface earth, ready to be mixed up with water when the tree is brought to the spot for planting. Having several years ago. Mr. Joseph Green, of Germanaved the hole in this manner, let it be mantown, obtained scions from the original tree, filled and covered with litter, to preserve it from freezing till the time for transplanting.

In deciding to plant trees of a size to require this process, it should never be forgoten that true economy consists in doing it thoroughly. While a tree of three inches diameter may succeed, if removed by cutting the roots at a distance of two feet from the trunk, the probability of the ultimate health and longevity of the tree would, doubtless, be more than doubled, if the distance were increased by another foot.

If, however, the determination to plant such rees is made a year in advance, the probability of success may be much increased by digging the trench around the tree, as above described, in the spring previous to its contemplated removal, and leaving it open during the summer, by which means the remaining roots will be induced to push out an increased amount of fibres, within the ball of earth intended for removal, which will, therefore, be ready to take a vigorous hold npon the fresh earth, when the tree is placed in its new position. The trench should, of course, be filled up as before described, on the approach of winter, the only object of itbeing to prevent the freezing of the bottom of the trench, which would serve to embarrass the process of removal.

Plymouth, November 26th, 1859.

HORTICULTURAL NOTES.

Temperature and Water for

Plants. The great majority of plants, kept in houses during winter, will do better until they begin to bloom, with a temperature ranging between 40 and 50 degrees of Fahrenheit, where they are kept in a parlor or room, as may are, where there is no green house nor conservatory. The plants, if in-tended to be preserved in a healthy state must have the benefit of a position in an east or south window. Without direct sun light plants will not do well. Nearly all plants like moisture in air as well as about their roots; and the only method of supplying this want is by washing or syringing their leaves frequently. When the leaves show a deep green, healthy, vigorous appearance, and there are none that show signs of decay or present a withered appearance, the plant may be con-

Hybrid Perpetual Roses.

8. in the Country Gentleman, names the follow-ing twelve Remontante or Hybrid Perpetual Roses, as those that may be chosen, premising that pre ference may be given to the first six: Augusta Mie, bright rose, very full and good form; Baron Prevost, dark rose, large and vigorous: Carolin de Sansal, delicate rosy blush, large and fine; General Jacqueminot, bright crimson, not very full; Jules Margottin, purplish carmine, very vigorous; ep velvety crimson, purplish Lord Ragian, deep velvety crimson, purplish shade; Enfant de Mont Carmel, dark purplish red; Marquis Boccello, flesh color; Pius IX, viole crimson, shaded; Souvenir de Leveson Gower, bright ruby; General Simpson, deep crimson; Wm. Griffith, rosy lilac, fine form and habit.--There are a great many of the hybrid perpetuals that are equally as good as these, but there are none superior to those first named, which have all become general favorites with those who have

Storing Celery.

In accordance with your request, I have furnished an account of my method of putting away celery for winter use; it differs somewhat from the practice of celery growers in general. I have followed this method now fifteen years, with complete success. I select a piece of rolling ground hoosing a fine clear day for the work; I set the line so as to mark out a straight ridge, and after shaking off the soil from the roots, lay the plants down along the line, three or four in a breadth, commencing at the highest point of the row, and working towards the lower point. Over the first layer of plants a second layer is laid, covering the first to about one third of their length, until the entire drill is finished, which generally takes about 250 or 800 stalks. The line is then removed and

set about eight inches from the row of celery, and the ground marked off along the line with the spade. The same course is pursued on each aid of the row of plants, The edge of this cut is leveled or sloped off with a clean cut, a spade deep from each side, and thrown over the plants, and so continued until the drill is formed into a ridge of a triangular form, the surfaces of which are well smoothed off and consolidated with the back of the spade. When severe frosty weather sets in, I put on a heavy layer of stable litter, about six inches deep, and if the frost is very severe, still deeper covering. The celery can be taken out safely during the most severe weather.

My crop usually occupies about four or six such without any inequalities, so as to provide against the lodgement of any surface water. The rolling nature of the ground selected, provides against the accumulation of water even during the most copious rains or thawing weather .- J. J., in Germantown Telegraph.

The Chancellor Pear.

This fine pear is not so well known as its high qualities deserve it should be. We consider it on of the very best of pears, and we have heard the remark, that a noted pomologist gave it as his opinion, that if he were confined to one variety of pear, he would choose the Chancellor. It is evidently an accidental seedling from the White Doyenne or Butter pear, and we think the flavor is superior even to that far-famed variety. It was discovered in a hedgerow, near Germantown, Pa., but the original tree was cut down by mistake which have fruited in his garden for many years. We have heard that scions have been taken from tree in the neighborhood of where the original was growing, since the latter was cut down, so that spurious trees may thus have been disseminated .--Phila. Farmer & Gardener.

The Bradford Watermelon. H. A. M., in the Philadelphia Farmer and Gar

dener, thus writes his experience with the Brad ford watermelon:

"The seed, last year, was not planted until the 5th of June, and some of the melons were ripe on the 12th of August. This year they were planted earlier, but ripened some days later. The rind is a grayish-green color, closely traversed by fine dark green veins; flesh varying from light to deep red, extremely sweet and tender, some-times separating from the rind like the Orange watermelon; seeds white and small; size varying from medium to quite large. One great recom mendation of the Bradford to me, is, that there is no danger of mistaking as to its ripeness. When ever the tendril nearest the melon dries up, the fruit is ripe. This I consider a great advantage as I have never before found a variety which could be certainly depended upon. All the signs of ripeness—dying of the tendril, hardness of rind, cracking when pressed, sound when tapped with the knuckles, &c., are fallible with most of

The Fruit Trade and its Importance.

The following paragraph taken from the Ann Arbor Argus, illustrates very forcibly the importance of the crop of fruit to this State, and also suggests the propriety of fostering this trade, as it must eventually prove a source of an immense revenue, as it grows into that position which it must occupy in the course of a few years:

"Some idea may be formed of the extent of the apple crop and trade of this county, when we tate the fact that D. Henning shipped a single cargo last week of eighteen car loads, from the sale of which over \$4,000 were realized. We have at present no means of estimating the surplus produce of the county for the year, but we are safe in saving that it rivals and probably excels an; county in the State."

The Science of Gardening.

THE LEAVES.

(Continued from page 379.)

Leaves throw off a very considerable quantity of water. Dr. Hales found that a cabbage emitted daily nearly half its weight of the exhalation amounting to twice the weight of the plant in twenty-four hours. This aqueous expiration takes place chiefly during the day, is much promoted by heat, and

On the free performance of this function of plants their health is dependent in a very high degree; and we believe that half the epidemics to which they are subject arise from its derangement. That consequence of the clubbing of the roots of Brassica tribe called fingers and toes arises, we consider, entirely similarly. from it. In the drouth of summer, when the moisture supplied to a club-rooted cabbage by its root does not nearly equal the exhalation of its foliage, to supply this deficiency the plant endeavors, by forming a kind of application of moisture. The kidney bean, spurious bulbous root, to adapt itself to the contingency; in the same manner that in dry ture equally by their under and upper surfaces; situations, the fibrous roots of the Phleum the cockscomb, purple-leaved amaranth, beliepratense, Alopecurus geniculatus, &c., acquire trope, lilac, and balm, absorb most freely by cos-rooted plants, it is well known, will exist cherry, apricot, walnut, mulberry, and rose, in a soil so deficient in moisture as to destroy absorb most by their under surfaces. J., in all fibrous rooted vegetables. 100 10 sh

Evergreens transpire less moisture than de-

ACERCITATED. ciduous plants; which would lead to the expectation that they are more capable of living in dry situations, which, in general, is really the case.

The matter transpired by a healthy plant is nearly pure water, 5,000 grains of it never containing more than one grain of solid mat-ter, and this is constituted of resinous and gummy matter, with carbonate and sulphate of lime. It appears to be nearly the same in all plants. The quantity, however, varies in every species, probably in every individualand is greatly influenced by the quantity of water supplied to the roots. Under precisely similar circumstances Sennebier obtained the following results:

A Peach branch, imbibing 100 exhaled 35 220 710

We have found the branch of a pelargonim, that, whilst growing on the parent stem, exhaled only twenty grains in twenty-four hours, more than trebled that quantity, in the same time when cut from the stem, and placed with the divided end in water. This increased transpiration is attended by proportionate reduction of temperature; for a collection of pelargoniums, in the midst of which Fahrenheit's thermometer stood at 55°, fell to 48° within two hours after a plentiful watering to their roots only, though the water was of the same temperature as the greenhouse.

For the purpose of ascertaining the composition of the liquid transpired by plants, M. Sennebier collected 13,030 grains of it from a vine during the months of May and June. When evaporated 2 grains of residuum were left, composed of nearly i grain of carbonate of lime (chalk), 1-12th grain of sul phate of lime (gypsum), | grain of matter apparently gum, and } grain apparently resinous. He analysed 60,768 grains of a similar liquid collected from the vine during the month of July and August. The residuum after evaporation weighed 21 grains, composed of a grain of carbonate of lime, a grain of sulphate of lime, } grain of gum, and } grain of resin. The liquid transpired by Aster Novæ Angliæ afforded precisely the same ingredients.-(Encyc. Meth. Phys. Veget.)

As the season of growth advances the transpiring power of leaves decreases. Under similar circumstances Sennebier found the transpiration much greater in May than in September.

The transpiration of plants decreases with that of the temperature to which they are exposed, as well as with the period of their growth. This explains why the gardener finds that his plants do not require so much water in cold weather, nor during the time that elapses between the fall of their blossom and the ripening of their seed. During this period they do not transpire more than one half so much as during the period preceding and attending upon their blooming.

The transpiration takes place from the upper surfaces of the leaves; and, if these surfaces are coated with varnish, the leaves gradually decay and fall, and the growth of the plant ceases until fresh leaves are produced. Hence arises the benefit which plants derive in rooms, greenhouses and other confined enclosures, from keeping those surfaces cleansed with the sponge and syringe. Some plants are particularly sensitive to injury from any moisture, a sunflower, three feet high, per-check to their transpiration, among which spired 1 lb. 14 ozs, and spearmint exhales 12 are the tea-scented roses; and it hence arises times its weight in the same period. But of that they cannot now be cultivated in nursery all the plants the diurnal perspiration of gardens near London, where they once flourwhich has been ascertained, the Cornelian ished when that metropolis was less extenerry (Cornus mascula) transpires the most; sive. The advantage derived by plants from having their leaves cleansed was exemplified by the following experiment:

Two orange trees, weighing respectively 18 ezs. and 20 ezs., were allowed to vegetate checked by rain, or a reduction of tempera- without their leaves being cleansed for a whole twelvemonth; and two others, weighing 19 oza. and 201 ozs. each, had their leaves sponged with tepid water once a week; the two first increased in weight less than half an ounce each; whilst of the two latter, one had increased two, and the other nearly three ounces. In all other respects they had been treated

It must be remembered bowever, in using the sponge and the syringe, that the under-side of the leaves is an absorbing surface. benefited by being kept clean, and by the sunflower, cabbage, and spinach, absorb moistuberous form, because bulbous or tuber- their upper surfaces; and the vine, pear, Cottage Gardener, in while his going . arral odt

(To be continued.)

FOREIGN AGRICULTURE.

Comparative Advantages of Carts and Wagons

FROM THE LONDON PARMER'S MAGAZINE.

A wagon is a four wheeled vehicle employed in carrying articles of heavy weight and large bulk from one place to another, and is drawn by two or four horses, according as the weight of the carriage, the loads that are drawn, the distance, and the state of the roads may require. The four-horse carriage with broad wheels, and of very strong construction, is chiefly used for long journeys and loads of heavy articles, which require to be only once placed on the vehicle, and no shifting or re'oading is necessary. The body of the wagon is closely boarded, in order to contain coals and lime; and grains and flour for the market are loaded in sacks. This wagon is mainly used by coal merchants and millers, and on extensive farms, the thrashed grains are carried to distant markets in the four-horse vehicles. Coals and lime are also the strong carriages, drawn by a team of

For the lighter purposes of carrying the crops of grain and hay from the fields to the rick yard a pair-horse waggon is used, which is built with open sides and boarded bottom, and drawn by two horses in tandem, or abreast. as in the four-horse carriage. The lightness of and in that respect are precisely equal; and the vehicle permits a quick movement in the operations; and the use is very convenient in hay and corn harvests, when the waggon is open-built, and not encumbered with unpecessary weight of materials. Grain is carried to market n sacks very conveniently in this waggon, which in other cases is closely board ed in the sides, and becomes useful for the only in the reduced ratio of two or three horses to four or five. This is the waggon of the farmer, and carries abroad and brings home all transportable articles, which are arranged in loads as circumstances may direct.

A cart is place on two wheels in the centre

of the body of the vehicle, from which two shafts extend in front, and form a connection of draught by which two horses yoked in tandem pull forwards the carriage or vehicle. The load is balanced on the wheels and on the back of the horse, which walks between the shafts, and is rendered steady by the imposition of part of the weight. The box of the cart is locked to the shafts; and being made to unlock, the tail-board being movable, the carriage is raised aback, and the load is discharged. This vehicle carries home and abroad loads of every kind of articles, and, being provided with projecting frames of timber spars, the crops of hay and grain are carried upon it from the fields to the rick-yard. For the purpose of distant journeys the lock is removed, the shafts being firmly joined with the body of the cart, which prevents the joggling motion, from the lock being present, that arises from the loose connection of the shafts and the cart. This provision is convenient for long journeys. The one-horse cart is contrived as the two-horse vehicle, the ditent in order to suit the power of one animal. The axels of the cart are mostly of iron, though wood is yet used in many cases of home use.

The four-horse waggon is a useful implement on farms that are beyond the medium extent, for the purpose of carrying lime and coals, and the thrashed grain to the market. grain during harvest. On uneven grounds in hilly countries, and from distant fields, four wheels are more secure in the traveling, and more safe from being overset with top loads, than any carriage with two wheels; and in these cases the advantage is very apparent. But the movements are slower; much time is spent in placing and discharging the loads, which must be inconveniently large, in order to compensate the more frequent repetition of less bulky quantities. The chief use of the four-horse waggon is not for home work, but in going abroad with heavy and bulky loads of one lading in a day, or in not more than twice sent on a journey; and a convenience is found in descending steep dedivities from locking the wheel, and easing the bases from the impelling weight pushing behind them.-This exemption is not large in amount, as the implement.

ed together in the component parts, the im- two hundred and three hundred acres in ex- purpose of use, as the implement is wanting and economy of material, cattle feed may be plement is managed by two horses, and one man to drive the carriage, which is a more convenint arrangement than two persons attending one waggon, as with the four-horse vehicle. The hay and corn harvests are very conveniently carried by this waggon in such loads as the distance and the condition of the roads will admit; and the implement is built with open sides, of spars, with a projecting frame. For the purpose of carrying coals and lime, and similar substances, the sides are temporarily boarded; and all articles in sacks, as thrashed grain, are carried in the open waggon of spars and light frame. This is the true harvest carriage, being lightly and neatly made. and suited to the special purpose. The boarded vehicle drawn by two or four horses is not so convenient, though it is applied to both light and heavy purposes.

The long-shaped harvest cart of Northum berland and the south of Scotland is placed on two wheels, drawn by two horses yoked in tandem, with a boarded bottom and open sides of spars, with a projecting frame. The by two horses, and managed by one attendant, equal loads of any articles are carried on both vehicles on steep grounds, and in crossing declivities with deep and wide furrows. Toploads of bulky articles, as hay and grain crops, are more safely carried on four wheels, which are not so readily overset as the two-wheeled carriage. On the other hand, the long cart is more nimble in the motion, and quicker in same purposes as the four-horse waggon, and being turned, than the waggon, which occupies more room in the rick-yard, when growded, in harvest. The waggon may be boarded in the sides, to carry coals and lime. The cart is not contrived for that use; but being provided with two wheels, and these borrowed for use from the box-carts of the farm, the cost being less than the four wheels of the waggon, may determine the comparison in favor of the cart, but which may be balanced by the other advantages of the light waggon. Both implements form the highest use, and are equally preferred.

The two-horse cart is used for heavy and distant carriages, and for performing the detail work of the farm. Greater weights are drawn by two horses in these carts than in the fourborse waggons, and a very large superiorty for small work, in which waggons are wholly useless. Being provided with sparry frames, the carts convey from the fields to the rick yard the hay and grain crops, though not very conveniently, from danger of oversetting the topload that is placed over a light box beneath, except on comparatively level grounds, and harvest-cart are both dispensed with; and the two-horse box cart, with iron axle and strongly-shod wheels, performs every work of the farm, with the distant journeys and carmensions being reduced in strength and ex- riages. But in most cases the long cart and

for detail work, in which frequent and quick habit, and gradually sink into the pace that It will hereafter be wanted not only for bedrepetitions are required of the operations that are performed. For every kind of summer the least troublesome, and the most convenient work, when the ground is dry and firm, in and suitable. From these causes it is seen dunging turnip lands, laying lime and dung that in the countries in which the use of meal, and water till all is absorbed, when it Two waggons may be placed on large farms; on wheat fallows, carrying earths and stones and being not very heavily constructed, two and all detail work of the farm, the cart drawn by the slow process of a man wielding a flail, becomes a good medium for convoying the horses are able to draw the loads of hay and by one horse is immeasurably superior to any the farm laborers are slow and more awk- lineeed meal the most fattening of all subother vehicle, as it carries loads of dung for ward in every kind of work than where carts an acre of turnip land very sufficient in are used as farm vehicles, and where grain the effect produced is of the greatest advantwenty outgoings from the heap, and a cubic is thrashed by machinery. A quickness is tage. Straw may also be advantageously yard of earth and stones is drawn to mode- compelled to attend on the evolutions of ma- mixed with other ingredients, such as bran rate distances without oppression to the horse. The lightness of the carriage permits quick and easy traveling, to which the narrow wheels offer little resistance. The load is readily discharged in one heap, or distributed into several portions, by the freedom of construction in the tail-board and forelock, which rises the cart into a slauting position, to facilitate the discharge of the load. On all turnip farms, the use of this cart is indispensable; and even for distant journeys, in fetching coals and lime, and in carrying tharshed grain to the market, the single-horse cart is superior to any other vehicle in carrying greater weights of load, and with more occurrence of very steep roads is partial, and ease to the horse. A single animal will draw does not form a decision of preference in the a ton on moderately steep roads, and for any length of journey; thirty hundred-weight, The pair-horse waggon possesses a much and even two tons, are drawn by carriers wider range of utility than the carriage that houses and at collieries and iron works. But

tent, where the journeys are short and the in any other adaptation. And for any detail roads not steep, the hay and corn harvests work waggons are wholly useless. The twoare very quickly and conveniently carried on horse cart adapts for any purpose of farm; the one-horse carts, provided with frames of and has only one inferiority, in being not so timber spars, that project before and behind steady as waggons under top-loads, and more the cart, and over the top of the wheels. The small loads carried are most amply compensated by the quick journeys that are made in frequency, and from the ease and dispatch with which the loads are placed and discharged. In these situations, of which many are found, no other vehicles are required beyond the one-horse cart, as it performs every kind of work, preventing the necessity of providing implements that only execute one purpose. The long harvest-cart or pair-horse waggon, along with single-horse carts, will provide any farm with wheeled vehicles, but liable to objection of different implements being kept for separate purposes, when a provision is known and used by which one implement. with an occasional change, is capable of performing all the carriage-work of the farm. The cheapest and most convenient provision fetched from distant places in heavy loads in implement performs exactly the same pur- of carriages for any farm will be in box-carts. poses as the light two-horse waggon, and is made in the strength and weight of materials fitted on the wheels of the box-carts of the to be used by two horses, for carrying coals farm. It would be difficult to draw, even and lime in distant journeys, as likewise for from an extensive and varied experience of the detail work of the farm during winter both carriages, a fair comparison between and in all heavy weathers and the rather small these implements. Both vehicles are drawn size, and the construction light as possible, allowing the use by one horse during the tur- a lighter waggon. The harvest cart of Scotnip season, and all detail work when the ground is firm and the land dry. The whoels price of a pair-horse waggon; and when the of these carts are fitted on the long carts of Northumberland, for the purposes of harvest; cost will not exceed one-fourth of the latter thus executing the performances with one vehicle. The differences are most important expense of wheels. This is true economy; and rises superior to keeping four wheels for the pair horse waggon solely for the purposes of the employment of the single vehicle. The sole advantage of the harvest waggon son of preference of the eart as a vehicle of distant journeys, and for one horse in all sum- utility. mer work, by the construction being neat and strong, materials light and durable, and the size resembling more the single-horse cart than the lumbering carriages commonly seen attached to two horses. A medium size and construction must be adopted. These carts purposes in which only one or two horses make the exertion.

The waggon is a vehicle of slow progression, arising from the length of the constructron of the implement, and from the hind wheels being placed at a considerable distance chopped or boiled with other substances for tion.—Canadian Agriculturist. not very distant carriages. In these situa- from the moving-power that is attached to tions, the pair-horse waggons and the long the front part of the carriage. Hence the strict attention to the economical mixing and general handling of the implement is awkward and inconvenient in the turnings, and in all lateral directions. The irremovable attachment of slowness is gradually, and by habit, communicated to the animal of draught pair-horse waggon are introduced for harvest and a pace is acquired in conformity with the jogging motion of the heavy length of The single-horse cart has been contrived the waggon. The drivers acquire the same it was secured generally in good condition. the motive powers have adopted, as being ding, but in a more than usual degree for waggons prevails, and the grain is thrashed should be well mixed up. The straw thus chinery, and the habit is transferred to all turnips, carrots, &c., and either boiled or other performances. A latent barbarism of steamed. The compound will prove particubeen discovered and acknowledged; so slowly are prejudices removed.

The purposes of use have been mentioned for which the different carriages of the farm are respectively fitted, and the superiority has been stated in the points of utility where one vehicle is seen to exceed another in the general as well as in the single occupations.-The four-horse waggon is adapted only for some special purposes; in carrying top-loads on the farm, and in transporting heavy articles in distant journeys. These occasions are present day and under existing circumstances. comparatively few, and do not justify the These machines may now be readily obtained heavy cost of the implement remaining idle of most of our implement makers in all the during the greater part of the year, as no part older settled districts of the Province; and of the waggon is applied to any other use .- they are usually exhibited at most of the

liable to be overset. The cart drawn by one horse is by far the most useful for detail work of every kind, but, though used, may fail for harvest purposes, and require the conjunction with a harvest cart. This last implement being fitted on the wheels of the box-carts, supply the inconvenience and complete the arrangement.

The prime cost of the different implements must have a large consideration in determining the preference of one vehicle over another, along with the liability of getting into disrepair, and the comparative expense of making the condition effective. A four-horse waggon equals the cost of more than two carts drawn by two horses; and as the number of animals employed are equal in both arrangements, the superiority of the two carts for a variety of purposes requires no argument or demonstration. Nearly four one-horse carts can be purchased for the price of a wag gon. And here, again, the greater value need not be argued of four vehicles acting separately in varied purposes. The same difference is found in carts and the pair-horse waggon, only somewhat reduced by the price of land will cost not above the one half of the cart is fitted on the axles of the box-carts, the in the case of a just comparison of the implements; and being joined with the superior usefulness of carts for general and varied purposes, there is formed an incontestable reaover the sparry cart, in the top loads not the farm. The best and most extensive farmbeing so easily overset, is wholly sunk in the ing in Britain is performed, and all farming superiority now stated; and waggons are ex may be conducted, by carts, without any ing distant from the horses, and carrying a or ever will be executed, with waggons with-

Economy of Fodder.

tall, active, and powerful. The dull, slug- mise its use. Much cattle food is annually case, from sheer inattention and carelessness. How frequently is straw seen rotting in unfood. Our farmers this winter, must pay preparing their turnips, mangels, carrots, flax, &c., as substitutes in a great measure for hay, or their flocks and herds will cut a sorry

figure indeed before the advent of spring. It is fortunate that the straw of most of the cereals has been abundant, and in con sequence of the favorable weather in harvest, provender. Farm horses may be fed with straw cut fine and immersed in boiling linseed the mind continues the use of these slow pow- larly adapted as food for cattle. The boiling ers of action long after the inferiority has of these productions of the farm with linseed meal, so as to make a kind of pudding or thick jelly, has for many years been advantageously used in Britain in the fattening of animals. It is found by experience that cattle relish and do better upon a cooked mix ture of food, than the same quantities of the various materials given singly.

But in order thus to prepare and economis straw as food for stock, the farmer must be provided with an efficient chaff cutter; an implement of essential importance at the is drawn by four horses, and the adaptation one ton may be assumed as an average weight is much more convenient for the purposes of load in farming operations. On level farm purposes, as has been mentioned; but the farm. Being lightly made and neatly joingrounds of conveniently arranged farms of still objected to as an expense dormant in one ercise of care and judgment in the selection

improved and increased to an extraordinary legree. It thus becomes more nutritious and fattening, and answers many other purposes connected with the management of ive stock, and the judicious management of a farm.

Another most important means of economizing fodder; one which every farmer can more or less adopt, consists in keeping animals clean, dry, and warm during the trying season of winter. A sufficient amount of good food and water, regularly given, although of indispensable importance, does not embrace the whole of the proper wintermanagement of stock. In this climate shelter and warmth are no less indispensable, if sound thrifty animals are desired. Hence the necessity of suitable buildings to meet these conditions. It is a clearly ascertained physiological fact, which modern chemistry has established, that a large portion of the food of animals exposed to cold and draughts, is consumed in generating and sustaining the heat of their bodies, instead of being converted into fat and muscle, as would be the case in a warmer and less exposed situation. A warm stable or byre it therefore a great economiser of fodder. Animals thus cared for will thrive better on less food than will others under less favorable circumstances with a more ample supply. This fact demands the best attention of the farmer at all times, especially when, as at present, the hay crop is o far below the average.

It is important, however, to observe, particularly in reference to sheep, that buildings intended for wintering stock, should not be made too close and warm; a mistake, it is true, we are not in danger of committing in this country. All our domesticated animals require a constant amount of pure air, and therefore proper attention should be paid in the construction of farm buildings to the vital question of ventilation. To combine the various conditions necessary in the healthy posed to the objection of the hind wheels be- waggons; but no cultivation of land is done, management of stock, requires constant care and a sound judgment. In this country sheep weight removed beyond the power of the out any carts. The latter observations may must be put into yards having sheds, during animal. The box-cart may be merged into a settle the comparison of the two kinds of car- the cold and storms of winter. But great vehicle for two horses during winter, and for riage implements in the value of practical care is needed in seeing that they are not kept too close; they require exercise and change, with plenty of fresh air, otherwise they will decline in condition, and become the The hay crop throughout the most parts victims of some contagious disease. Of all of Canada, and a great portion of the West- the physical conditions in which this animal ern States, has proved this year very much can be placed, those most unfavorable to its below an average. Every farmer should health and growth, are dampness and exrequire horses of spirit and muscular strength therefore be careful of his fodder, and econotion to matters of this kind, which come more gish animals of the waggon are not fitted for wasted either from want of knowing how to or less within the ability of every farmer to mix and use it, or, as is too commonly the carry out, will, in seasons like the present, make a scanty supply of fodder do more service in promoting the growth and sustaining sightly heaps, instead of being daily employ- the health of the domesticated animals, than

Action of Frost upon Soil.

The soluble part of soil is the inorganic food of the plant. Rain water cannot come in contact with the soil, or even with a gravel heap, without dissolving some of it.

Expose almost any stone, or handful of gravel, washed clean, to the action of a quart or so of water for several days, and upon evaporating the water, poured off carefully from the stones, it will be seen from the whitish residue left that a portion had been dissolved. Now let these same stones be exposed, covered or partly covered with water, in a saucer, to the action of the frost; setting them out of doors for two or three snapping cold nights, taking larger quantity has come into solution.

The reason is, that all stones, being somewhat porous, by the action of the frost their outer portion is broken up, scaled and fiseured, and a vastly greater surface is exposed to the action of the water, even though this fissuring is not visible to the eye.

Application.-When land is exposed to alternate freezing and thawing, the same effects must take place; and when it is thrown into ridges in the fall, these effects are produced more conveniently than in any other way.

Snow will lie unthawed between the ridges,

ensuring a cold temperature, and the tops of the ridges will, unless the fall of snow is very heavy, be exposed to the sun, and will thaw by day. Thus a considerable portion of the soil during a great part of the winter, will be alternately frozen and thawed daily. This effect on many soils, especially those of a heavy clayey or gravely nature, will be equal to a dressing of manure.—Homestead.

Shorthorn Sale.—The Hon. Adam Ferguson, of Canada, lately made a public sale of six heifers and four bulls, of his choice Shorthorn stock. The hignest price for the heifers was for a two year old last May, which brought \$88. The highest price bull only prought \$88. The highest price bull only brought \$62; he was a calf eight months old. Notices of the Press.

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Our own Michigan FARMER visits our table every week, and brings a feast of good things. The FARMER sustains a high character among its class of journals. We are happy to see that our State has had the good sense to appreciate the talent of its editor, R. F. Johnstone, Esq., and appoint him to the position of General Superintendent of the Agricultural College Farm at Lansing. We are sure he will fill the position with advantage to the State, the students and the farm, and with credit to himself. The FARMER is published weekly by him, at Detroit. \$2.00 per annum .- St.

THE MICHIGAN FARMER fulfills the promises of its prospectus, which is more than can always be said of such promises.

The series of articles on "The Structure and properties of Wool," by Dr. Goadby, are valuable and interesting, and any scientific publication in the country might well be proud of them.

The price current, the editor may, and we hope will, make a prominent specialty of the FARMER. The Farmer's newspaper ought to be a perfectly reliable source of information as to the markets

We hope the FARMER is a success, pecuniarily. It certainly deserves to be. Mr. Johnstone has shown himself courageous in changing the FARM ER to a Weekly at such a pecuniary crisis.

MICHIGAN FARMER .- To the former and horticulturist of Michigan, this publication is unequal led. Devoted to the advancement of their interest it is always filled with good things, suited to their wants and necessities. Good farmers will have this paper. It is published in our own State and is furnished as cheap as any paper in the United States—Lapeer Republican.

THE MICHIGAN FARMER finds its way to our te ble regularly every week. It is gratifying that the intelligent farmers of Michigan are so well represented through the columns of this weekly Jour nal, and they give it their generous support. No paper in the Union excels it, and for the latitude of Michigan, no one equals it.— Genesee Democrat

We notice that our Agricultural Society have adopted the plan of awarding, in some cases, copies of the Michigan Farmer as premiums.—
This is a good move, and those who are so successful as to draw them will find them of much more value than the "Diplomas." and "Transactions" which used to be awarded. We consider the MICHIGAN FARMER, published at Detroit, and the Ohio Farmer, published at Cleveland, as two of the best and most useful agricultural papers in the country, and no intelligent practical farmer should be without one or both of them. You would find either of them a good investment. Price of each \$2.00 per annum, \$1.50 in clubs .- Branch County Re-

MICHIGAN FARMER .- We cannot too highly recommend this farming journal to the notice of our agricultural readers. It should be in the hands of every farmer, and of every farmer's wife and chil-

THE MICHIGAN FARMER, is received, a splendid weekly journal, devoted to the affairs of the farm, the garden, and the household, published at Detroit by R. F. Johnstone. It is a neatly printed quarto sheet 'chuck full' of the very best agricultural reading. We wonder that there is not a larger number taken here .- Ingham Co, News.

MICHIGAN FARMER.-We cannot over estimate the value of this excellent agricultural journal. For reliable information relative to the subjects of which it treats, it cannot be excelled. Every traps set by these speculators, and for the defarmer in the State should take it. It is a large weekly paper published in quarto form, and is cheap at \$2 a year. Three copies for \$5, five copies for \$8, and ten copies for \$15, Address boyond all reasonable limits, advertise them R. F. Johnstone, 130 Jefferson Avenue, Detroit— and urge their subscribers to send for them

We are in receipt of the MICHIGAN FARMER, a weekly journal of affairs, relating to the farm, the garden and the household, published at 130, Jefferson Avenue, Detroit Mich., R. F. Johnstone, Editor. The FARMER is proneunced by competent judges to be one of the best agricultural papers extant, and we cheerfully annex it to our list of Exchanges. The low rates of their clubbing terms, afford an opportunity for every farmer to a short time since which was very properly subscribe .- Morenci Star,

MICHIGAN FARMER,-This weekly journal is becoming more and more a credit to our State.—

Whose editor almost 100ks upon batchigan as
Each number is filled with important matter, with
his barnyard, has recently flooded the State most judicious selections and able editorials. It with his offers to journals to join with him certainly deserves to be sustained and supported in getting up clubs, and to advertise his paby our agricultural people. It is an excellent per for nothing, sent one of his proposals ofreading and family paper also—contains the latest general news and scientific intelligence. Its horticultural calendar, for April, contains articles on of the paper on which it was printed, if our the preparation of the garden, on kitchen garden informant would join with him to circulate them. If the Democrat was a little more plants, on apple seeds and their treatment, which his paper. The offer was very promptly are useful to every one who has a garden to culticopies for \$5, or five copies for \$6, in advance.— Michigan man, and a Michigan editor and We hope the efforts of Mr. Johnstone, the able and publisher, he felt it his first duty to promote indefatigable editor, will be amply rewarded by a the interests of the Michigan press, and he large list of home and foreign subscribers.—Man

Many letters from private personal correspondents are even more encouraging than the above.— There are many of the editors throughout We have room but for one or two. An influential farmer in this State writes :

"I send you a few more names for the FARMER. Our town will make a show on your Books another year. Many eastern agricultural papers have been the State as an important one. We think a taken here, which are good enough as far as they little reflection would readily suggest that it is go, but we find out that if we want to know any thing about Michigan agriculture, we have got to look to the Michigan FARMER for it. Your week ly is much liked. It comes fresh, prompt, and fall tools to build up outside interests, that they of good things every time."

A Massachusetts subscriber says. "I take nearly rests, and cause the press of the State to ocall the agricultural papers published in the United States, and would rather be without any three or four of the others than the MICHIGAN FARMER."

One in Western Illinois writes : "Enclosed find my subscription for the FARMER. I have tried a good many papers, but none seem to come right home to us with the information we want as yours does. Let Eastern ones say what they will, and strain themselves to the atmost to buy up our anbscriptions at a discount, they cannot satisfy us; we have not what we want here at the West, till we get the Michigan Parmer." NEW ADVERTISEMENTS.

MICHIGAN FARMER.

R. F. JOHNSTONE, EDITOR.

SATURDAY, DECEMBER 3, 1859.

Don't forget.

That we are ready to receive clubs of three or over, at the rate of one dollar and fifty cents for each name, and any larger number at the same rate. Send in your names before the first of January.

Those who desire to act as agents to procure subscribers for the volume for 1860, will be furnished with terms and prospectus on application, personally or by letter.

Press.

While farmers are preparing for the winter there is one duty which it becomes them to attend to with fidelity, and that is not to forget to sustain their own county and State press. They should remember that it is not the press of New York or of Massachusetts or of Pennsylvania that gives character to Michigan, that attends to the interests of Michigan, that makes the State and its industrial resources known abroad, or that guards them from imposition and wrong. It is the boast of much of the eastern press that they can always depend upon the western States for a large support. In fact, what with show bills, and their agents, and splendid promises, Michigan is generally pretty well skinned out of many thousand dollars every year for which the State gets no return. For it must be borne in mind that there is no reciprocity in this business. The eastern States do not pay a dollar to sustain the press of Michigan, or of any other western State; and every farmer or other citizen when he is making up the list of papers which he calculates to take for the year, should bear this fact in mind .-What for instance has the New York Ledger done except to corrupt the minds of our youth, and yet how many hard earned dollars have gone out of this State, to aid the pub lisher to live in the utmost luxury, to drive round in the most gorgeously equipped carriage, and to buy teams of horses for thousands of dollars, that can out-trot any other span on Long Island? So with many others we could refer to.

Many of the editors of the State help to sustain this order of things by falling into the livery of some journal without an exchange, they extol the merits of these eastern papers forgetting that they are thus aiding to send out of the State a large portion of capital that might be used in their own State or county to a much better advantage, by sustaining its press, and thus aiding to sustain, extend and improve their own business.

A case of this kind came to our knowledge treated. An eastern agricultural journal, whose editor almost looks upon Michigan as fering to supply his journal at almost the cost The price of the journal, is \$2 a year—three spurned, and an answer sent back, that as a was not willing to allow himself to be made a tool of to injure it by any such coalitions .the State who have taken the same stand, but there are also a large number who do not seem to regard this duty to themselves and only by respecting their position, and not permitting themselves to be made the mere can best promote their own business and intecupy its legitimate position.

To Our Subscribers.

the past year, are those who have been steady quality.

passen the weary i coffees. Happy are they frame from brooding over

supporters of the Michigan FARMER for many Death of a Distinguised Sheep Breeder. years, and all of them possess more or less influence in their neighborhoods. They can at enlisting one or two of their neighbors to having taken place on the 21st of last month. join with them as subscribers for the coming Mr. Jarvis was 89 years old. This gentlethem that cannot add two new names to introduction of the Spanish Merino sheep their own. We ask them to try, and for-into the United States. He was the American ward all they can by New years. There is no Consul at Lisbon more than forty years ago, New year's present that seems to an editor and after much exertion, at last made a very equal to a good large club of subscribers at large purchase of several of the breeds for the beginning of the year. We have prov. which Spain was famous. In fact, in 1809 and ed that the farmers of Michigan can have a 1810, he shipped fourteen hundred Paular weekly journal of the'r own, will they not Merinos, seventeen hundred Acquierres, one do their share to sustain it?

A Doubt Solved!

A great many of the old subscribers of the Monthly Farmer last year, held off their support from the Weekly because they had some doubts whether it would last the year out, as they did not think the State could Worth Attention - Sustain Your Own sustain a Farmer's weekly paper. This feeling, which was fostered and spread by the agents of eastern rural Journals, prevented a large number of old friends from venturing to give the Farmer their usual patronage, and of course made the first year of the Farmer, a difficult business, but we entered upon it with the determination that this volume should be published if it swept off every rag we possessed. Our readers know that we have placed before them a Journal equal in general character to any paper of a like kind in the Union, and far superior in usefulness to the citizens of Michigan to any eastern rural, humbugs with which we are annually flooded. Now that we have solved the doubts as to whether a weekly agricultural paper can be published in Michigan, will not those who fellowship, with a hearty word of encouragement for this volume? We want to see their names on our books once more.

Death of Washington Irving.

The patriarch of American literature, Washington Irving, died on the evening of Monregret. Washington Irving was in the middle of his seventy-seventh year, having been born in New York, April 3, 1783. The imdeprived him of life as he was retiring to rest. He thus passed into that other and blameless life, during which his name had become a source of national pride.

Going the Rounds.

"As we expected, our article on increasing the growth of woo', which was stolen out-right by the Battle Creek Jeffersonian, is copied into the MICHIGAN FARMER with due credit to the first named paper. Also, an article appears in the same number of the FARMER credited to the Bay City Press, which was original in the Democrat. It was headed "Northern Michigan—O'Tawas." We were

We gave credit to the papers where or at least without credit, and supposed the whole county. We sincerely hope the result Jeffersoman and Press came honestly by will prove teneficial. regular in it appearance among our exchi we might stand a chance to get the first cut | Blackwood,-This old favorite of the British second-handed, and then be charge with piracy, when we told right out where we found them. Anything relating to the opening and settlement of the new northern and western counties of our state, possesses a local and peculiar interest, and we are anxious, for the from whatever source, and quite as anxious to give all credit where it is due.

Sale of Valuable Stock .- We call attention to the advertisement of Mesers. Hunter and Brooks, who offer for sale, on the 14th instant a very large lot of thorough bred and grade stock. Mr. Hunter has sold his farm, and offers all his stock, most of which have been bred from the thorough bred the present year, and it will be seen that we stock that has been bred by himself, and as the Autumnalia, The Witch's Deed, &c. The have offered it on the most reasonable terms. among which is a three year old bull sired by Art Journal is published at \$2 s year. Most of those who have been our readers for imported John O'Gaunt, of unmistakable Merry's Museum.—The little ones who are lucky

We note that the death of WILLIAM JARVIS this time do the FARMER a great service by of Wethersfield, Vermont, is appounced as volume of 1860. There is not one amongst man's name is intimately identified with the hundred Negrettis, two hundred Escurials, and two hundred Montarcos, and these formed the origin of the immense flocks of Spanish sheep which now dot the country from one end to the other. Mr. Jarvis must have ooked back with eminent satisfaction to the great service he rendered the country, and have watched with attention the gradual increase of the interest to which he had been the first to give an impulse. Few men have done more for the country, and yet we hear of no grand processions, no great display of citizens, with banners and music, and solemn requiems and grave dirges, no flaunting eulogies, no sermons displaying his patriotism, and its rich reward. All that tells of the departure of this distinguished Farmer from the land he has done so much for, is the newspaper notice, which notes his death as one of the incidents of the day. Yet who will not say he was worthier of the highest honors than most of those to whom they are given?

The "Terra-Culture" Dodge.

"Professor" Comstock is having a good time in some portions of Pennsylvania, where feared the result, come into the ranks once he has been getting up clubs to induct farmmore and give us again their right hand of ers into his "Sacret," as Prophet Ryan would call it. General James S. Negley of Pittsburg has been putting him through a course of Pennsylvania militia tactics, and charges home upon him with such sharp weapons that the Professor beat a retreat, rather than run the risk of being prosecuted for obtaining money under false pretences. This was the unday last, at his residence at Tarrytown .- kindest of cuts. We have known the "Pro-Though the event was not unlooked for, still fessor" for some twelve or fourteen years, and the passing away of one whose name is so fa- his presence was always marked with such a miliar will not be learned without a feeling of rare sublimity of humbug, that we did not suppose any one could possibly be mistaken. after listening to him, that he did not receive a most salutary lesson in the pleasant art of mediate cause of the death of this great and transferring a dollar or two from his own good man, seems to have been a disease of the pocket into those of another man, with as heart. A sudden attack almost intantly slight a consideration in return as could be got up. Comstock is a practiced juggler, and knows how to do the trick in a very world with little pain or suffering in this, but handsome agricultural way. The Pittsburgh in accordance with the quiet tenor of a long people do not seem to have considered his tricks a good joke at all. They were mistaken in their man, or else he was, when he exhibited his secret at that place.

The Washtenaw County Society .- The Society held an adjourned meeting at Ann erbor on the 18th of November, at which a Committee, consisting of Messrs, Maynard, Gregory, Sheldon, Hill, Phelps and Uhl, was appointed to propose and recommend such aloriginal in the Democrat. It was headed "Northern Michigan—O'Tawas." We were not aware that it was one of our duties to find ideas for the entire Michigan press, but we are willing to do so to the best of our ability if the favor is duly acknowledged; othwise we must pronounce the appropriation of them — PIRACY I'—Genesee Democrat.

No. 1 was headed terations and amendments to the constitution as might be deemed proper and necessary, and the have the same published at least ten days previous to the annual meeting to be held the first of January next. This movement is evidently intended to strengthen and promote the true interests of this society. teraions and amendments to the constitution promote the true interests of this society. we found the articles appearing as original, and to unite the agricultural interests of the

Literary News.

at its "ideas," and not be obliged to take them reprints comes promptly to hand. The table of contents for the number is as follows: The French on Queen Mary; Vanghan's Revolutions in English History; The Luck of Ladysmede—Part 9; Captain Speke's discovery of the Source of the Nile; A Week in Plorence; The Idyls of the King; On Allied Operations in China; The Future of India and her Army.

Leonard Scott & Co., of New York, republish benefit of our readers, to avail ourselves of from the English editions, the four Reviews, viz: all the information that comes in our way, North British, and the Edinburg; and these in connection with Blackwood monthly, are furnished at \$10 a year; or Blackwood with any one of the Four Reviews, may be had for \$8,00. Now is a good time to send in subscriptions.

Cosmopolitan Art Journal.-This splendid Quarterly for December is received. It is one of the most superb numbers yet issued. The frontispiece, from a painting by Mrs. L. M. Spencer, is a most life-like and beautiful picture; there are several nandsomely illustrated poems, portraits of Wm. Gilmore Simms, Harriet Hosmer, and Wm. Page, We have mailed the prospectus of the new stock brought in by Mr. Brooks. Mr. and many other engravings. The reading matter volume of the Farmer to all our subscribers for Brooks' animals consist of thorough bred to the present year, and it will be seen that we stock that has been bred by himself, and the Automobile The With the exception of one to the present year, and it will be seen that we stock that has been bred by himself, and the Automobile The With the exception of one to the present year, and it will be seen that we

enough to belong to the Merry Family will be

and that it is not necessary to not if they may the washies, wringing and front a processes, medicine and more go

pleased with the treat Uncle Hiram has prepared for them this menth. For some little by whe does not see the Museum we have copied what Norman says of his kitten. The Museum is published in New York at one dollar a year, monthly.

American Stock Journal-It will be seen by reference to our advertising columns that Mr. Linsley, the publisher of the above Journal, has associated with him in its editorial management, Geo. H. Dadd, the most able writer on veterinary science in this country. Such an arrangement will give a double interest to the work, and make it more than ever desirable to all interested in the raising and care of stock.

General News.

By the arrival of the steamship Africa, we learn that after a very protracted session, the Zurich Conference has accomplished its object in the preparation and signature of the treaty of peace. But things seem to limp along very supiciously still. From Vienna we have intelligence that the reactionary party is again in power and that no reforms are impossible, while in Venice the reign of terror is again inaugurated. The national assemblies of all Central Italy have united in calling upon Prince Carignanol to accept the regency under the accept semblies of all Central Italy have united in calling upon Prince Carignanol to accept the regency under the sovereignty of Sardinia; but the latest news is that Sardinia, under inspiration from France, has refused permission to the Prince to accept it. A very curious item is telegraphed, to the effect that the Emperor of Russia and the Prince Regent of Prussia had, at their late meeting, determined to adhere to the treaties of 18151 Further, it is stated that they will not go into a European Congress in which England is not represented. If there be any foundation for these roports, they indicate an agreement between Russia, Prussia and England, which bodes no good to French schemes. Any such combination would make the approaching European Congress it is now said that the Turkish question will Congress, it is now said that the Turkish question also be introduced into it. But the truth is, that Eu-pean affairs are all in confusion at present, and these hings are only talked of and possible.

-The first train consisting of an engine and single car, having on board about fifty persons, san over toria Bridge at Montreal on Thursday afternoon. tim : occupied in passing was about 121/2 minutes.

The construction of a railroad has been commenced in South Africa. The first of eight locomotives for the road is already finished.

-In Holland there are three assurance offices for cat--America's greatest author, Washington Irving, died

on Monday last at his home on the Hudson. He was seventy-seven years of age. His last work, the Life of Washington, was only completed last spring.

—The opposition have carried New Jersey in the elec-tion of Governor by a majority of 1,600.

It is stated that John Brown's fate is sealed. Gov. Wise has determined on granting no reprieve. The most stringent regulations have been adopted in regard to the presence of civilians at the execution. All ap-plications for passes for civilians to attend within the military lines are refused by the Governor on the ground that it would conflict with the military programms. He said that civilians could not under any circumstances, be admitted within the military lines, the outer one of which would be nearly a mile from the scaffold. Not a word of what John Brown may utter, if he should say anything, will therefore be audible to the men forming even the line next to the gallows. Gov. Wise stated the cause of this exclusion of all persons other than the military to be that in the event of an attempted resons as tary to be that in the event of an attempted rescue an order to fire upon the prisoner will be given, and that those within the lines, especially those sufficiently near to hear what Brown may say, would inevitably share his

—The case of George C. Bates, of this city, against the Illinois Central Railroad Company, has again been de-cided in favor of the road. The case involves property to the amount of some two millions of dollars. There is ome talk of further appeal.

-The screw steamship Indian, bound from Liverpool to Portland, Maine, went on the rocks on the coast of Nova Scotia, on Monday last, and went to pieces. She had on board 138 persons, with 800 tons of freight and some specie. The passengers and crew took to the boats. One of the boats capsized, drowning several persons. An other was stove alongside the steamer, and two other boats, with passengers and scamen, drifted to sea and have not since been heard from. A schooner has arrived at Halifax with twenty-four rescued persons. The number of lives lest is not yet known.

—The Marquis of Westminster recently appeared at court, wearing a sword, on the pommel of which was a diamond worth \$150,000.

—G. G. Poindexter, the editor of a Democratic paper in Nashville, Tenn., was shot dead, on the 19th inst., by A. A. Hall, the editor of a Republican paper in the same city. A political controversy was the origin of the dif-

ficulty.

—The La Crosse papers state that a larger emigration is now crossing the river at that point into Minnesota than has been known since 1800.

—Thirteen of the students of the Connecticut Literary Institute were lately expelled for participating in a social oyster supper. Gov. Seward was presented, in Alexandria, with

three superb Arabian horses, which will be shipped to this country. Two of them will be presented to the New York State Agricultural Society.

The next session of Congress begins on Monday next. Washington is rapidly filling up with members, politicians and political schemers.

-Advices from Hayti of Oct. 22d, state that twenty individuals concerned in the recent conspiracy and the individuals concerned in the recent conspiracy and the murder of the President's daughter, had been tried, con-victed and sentenced to death. Sixteen of them had been already hung. One had been respited, and three had previously escaped to France.

-One of the humanitarian movements of our times, although little known as such, can hardly be over-estimated in its importance upon the well being of our widely scattered communities. The population of the American States is in many sections so sparse, that skiffal Physiciana are hardly available to them. Vast numbers of the people, are obliged to employ in sickness, such medical rollef as they can hear of from each other, or indeed any they can get from any quarter. Hence arises the great consumption of Patent Medicines among us, greater by far than in any of the old countries where skilful Physicians are specially to all classes. Unprinus, greater by far than in any of the old countries, where akilful Physicians are sociable to all classes. Unprincipled men have lone availed thomselves of this necessity, to palm on their worthless nostrums, until the word has become synonimous with imposition and chest. One of our dading chemists in the East, Dr. Ayer, is pursuing a source which defeats this iniquity. He brings not only alsows, but the best skill of our times to bear for the production of the best remedies which can be n of the best remedies which can be for the production of the pest remedia, in a convenient made. These are supplied to the world, in a convenient form, at low prices, and the people will no more buy near medicines instead of good, at the same cost, than near medicines instead of good, at the same cost, than peor medicines instead of good, at the annual they will bran instead of flour. The inevitable consequence of this is, that the vile compounds that flood our country are discarded for those which honestly accommunity are discarded for those which honestly accommunity are discarded. country are discarded for those which honestly accomplish the end in view—that cure. Do we over estimate its importance, in bolleving that the prespect of supplanting the by-word medicines, with those of actual worth and virtue, is fissight with immense consequence for good, to the masses of the people.—Gaestia and Chronicle, Para, Is.

The Household.

She looketh well to the ways of her household, and ateth not the bread of idleness."—PROVERES.

EDITED BY MRS. L. B. ADAMS.

LAYING DOWN THE KINGDOM.

BY J. B. ORTON.

So Thomas is going to get married,

To bring home a bride, a young wife.

He has said it himself, and he never

Deceived or joked me in his life.

When William got married it gave me
No thought of regret or surprise;
For the boy seemed just made for a womanTo live in the light of her eyes.

And when Clara was wed to the Southron— Though Clara, my daughter, was dear— and removed to the far Rappahannock, It cost but a sigh and a te

But Thomas, my staff and my eldest, Seamed never to care for the girls. Se proud, like the oak, to surrender At last to soft eyes and soft curls!

Since John died—six years ago Christmas— Our Thomas—he's always the same— With more than the strength of his father Has stayed up the house and the name.

I never once thought he could marry, Se kingly, so firm and so kindthe me! tears will come: they are needed; For my old eyes, indeed, must be blind.

He tells me I'm getting so aged, I need more sepose, more fresh air; so a daughter he'll bring me to lighten My burden of labor and care.

Ah met He may think so; he brings me The sceptre must pass to another, And I to my grave, or my bed.

But, hold! It is well. O my Father! Help me to subdue my proud heart. I have reigned like a queen; but 'tis over; And another of right/takes the part.

I yield her my empire for ever:
And, Thomas, I'll love all that's thins.
The chosen shall have all her honors,
As I've always had all of mine.

Come hither, my little man, Tommy, Come hither, my rosebud, my Jano! You are Grandmama's darlings and tre Her pearls hung about her again.

Not Papa, Uncle Will, nor Aunt Clars-So grand and so sweet when she com Ever gave me one-half of the pleasure Of these little sproutlings of Tom's.

They have kisses and cheer in the morning;
They have kisses and cheer all day long;
And their sports and their griefs so alarming
Which always are cured with a song.

They know where to find a consoler:
As little birds fly to their nest,
They climb Grandma's knees for a cover,
And always find peace on her breast.
—N. Y. Breening Post.

Are they Asleep?

"How quiet the women are now-a-days," said a person in our hearing a day or two "I wonder if they are all asleep? I don't hear anything of Bloomer conventions, Woman's Rights movements, and the like, and I guess the ferment has subsided, and they have concluded to settle back to their old ways again. After all, the hubbub they stirred up has not done the world much harm.

What a philosophical consolation is this, thought we even if the case were as he thinks. But is it so? The "ferment," as he calls it, may have subsided; there may be less talk and loud clamoring for rights, but there is more earnest work and a more serious laying hold of the rights within their reach, among women now than ever before. What is the man doing with his eyes and ears that he does not see and hear what is going on? that he does not see that this very quietness is ominous of a deeper working of the leaven that has been hid in the measure? Women are taking hold of labors, assuming duties and filling positions of responsibility that but a few years ago seemed entirely out of their beyond their ability, above or bel their sphere They are learning, individually now, it will be generally by-and-by, to make use of the one inherent right of their natures which is the charm that will bring within their reach all the rights and privileges they can ask or desire, and that is the use of their own common sense. Now that they have found out that they have this very homely but useful attribute and the right to exercise it, it is wonderful wat works they can do, and how quietly they can do them.

No: the "hubbub" streed up by the "strong-minded" women has not done the world any harm. An uncommon demonstration of some sort was necessary to take people up, to set them thinking. The who went forth first to break up the ground and sow the seed had a stormy time of it; they needed all the courage and boldness the manifested, and perhaps even the coarsenes of some was necessary. There was a great deal of coarse work to be done. But the seed was sown, and it is springing up in a thousand forms all over our land, wherever women live, and think. Like Rosa Bonhour, they are learning that they have abilities of their own, and that it is not necessary to ask if they may

use the faculties God has given them. The first question is, "What is to be done?" The second, "Can I do it?" not may I?

Women are startled out of the old beater track, where troops of pale school-mistresses followed troops of paler seamstresses down to the dark valley while life was yet in its morning. They have learned to think, and are learning to act as well. Some of them are becoming eminent as artists, some noted for their professional skill, many, very many as authors, while in more private and quiet ways others have let the ferule and the needle go, and have literally taken up the "shovel and the hoe" and gone out to cultivate the fields and work out their own independence together. Now that this idea of turning florists, fruit growers, and even wholesale farmers is proved really practicable by women themselves, we are inclined to think that men need have little fear of their rivalry in politics or affairs of the government. After enjoying the fruits of their labor in the shape of rose and raspberries, peaches and potatoes, women will not care to dip their hands, hardened though they be by labor, into the miry, troub led stream of politics. On the other hand the girls need not fear that their fathers and brothers, usually so jealous of their preroga tives, will claim exclusive right to the plow and the hoe, and so drive them from the gardens and the fields back upon their spelling books and their needles again. No; the inquiry is not even made as to whether they will be "out of their sphere" or not, and they are not only welcomed, but urged to go forth with promises of delicious fruits and tempting flowers. The best of it all is, that they know their labors there will meet with the promised reward. They are not working blindfolded, neither are they asleep.

Sewing Machines.

"What! Puffing those expensive things again?" No, not puffing; they do not need it; they can sing their own praises, and do so wherever they go, with far more effect than any words of ours could have. We wish now simply to call attention to the new advertisement of the Messra. Griggs, of this city, the agents of Wheeler & Wilson's patent, for Michigan. It will be seen that they offer machines at reduced prices, and warrant them equally efficient for work with those of higher cost and finish. The superiority of these machines for family purposes over all other patents now in use, is fully attested by the long array of first premiums they have received at public exhibitions, as well as by the general satisfaction they give, where properly anaged, as a help in the household.

We have often been asked the questions Now, honestly, what do you think of sew ing machines? Are they real, permanent helps, or only expensive pieces of furniture to be experimented with awhile, and then to be thrown aside among the three-minute churns and patent washing machines?"

We answer, "honestly," that we think they can be made as useful and efficient in the man ufacture of garments from cloth as a loom is days, when we never grudged the harvest in making cloth from yarn, and they want hands that yellow butter which cost us so full as much judgment on the part of the or erator to make them so. Almost anybody, having the use of their feet and hands, our get into a loom and make the treadles go, and throw the shuttle back and forth, but it wants common sense combined with good but rather to suggest a remedy. In Autumn, judgment and some experience to make a or the forepart of winter, the farmer general with a sewing machine. Any heedless girl such Lam talking. Suppose, then that you he had wished, still to beat the master in any may sit down to one and make the wheels say to your wife. "As you are my partner, I contest or in any way, was something we bux and the needle fly as she pulls the cloth will give you a certain per centage of all I may be stitched together, after a fashion .-But this is not sewing. Some stitches will be drawn too tight while others will be loose, leaving the thread lying in a straight line along one side of the fabric. Then perhaps the mother examines the work, and, in at tempting to straighten the seam, snaps a thread, and away go patience and faith together; the inventors are pronounced swindlers and the machines are humbugs. Many a woman has been in this way disappointed and disgusted with her purchase, not from any fault of the machine, but simply from want of brain to guide it aright. Good judgment, patience and perseverance in the opethe inventor may be, he cannot endow the hand."

At the late exhibition of the American Institute at Palace Garden, New York, the Committee on Sewing Machines made a very able and discriminating report, pronouncing upon the various merits of the many patents offered. We quote some remarks, and what they

say of the Whoeler & Wilson. "Sewing Machines, considered in their so-cial, industrial, and physiological bearing up-on society, are second in importance to no material agent of the day. Economizing nine-tenths of the time required for sewing by hand; eliminating most of the evils needlework; enlarging the sphere of woman's employment by creating new and profitable branches of industry; relieving the house-keeper of her most grievous burden, the Sew-ing Machine ranks with the fabled deities as

benfactors of humanity: drod A
"CLASS 1st, includes the Shuttle or Lock Stitch Machines for family use, and for manufactures in the same range of purpose and material. The Committee has assigned this class the highest rank, on account of the "elasticity, permanence, beauty, and general desirableness of the stitching when done," and the wide range of its application. At the head of this class they place the Wheeler & Wilson Machine, and award it the highest premium. This has been the uniform award for this machine throughout the country for several years, and we think no disinterested erson will dispute its justice and propriety."

If any one wishes to see these machines in operation, with all their improvements, and to be shown what they are capable of doing call on the gentlemanly agents at their room nearly opposite the FARMER office in this city. The success they have met with is well mer ited.

Claims of Farmer's Wives.

A good deal has been said of late, and a good deal more thought, about the dependence of farmer's wives upon the too often limited generosity of their husbands for spending money, or the means by which they may furnish their houses and themselves with needed comforts and conveniences. It will be remembered that some hints were given on this subject by a Farmer's Wife, in our paper last winter. A writer in a late number of the North Western Farmer, complains that Illinois husbands are no more generous than others, and suggests the same remedy as that recommended by our cor-respondent. What is claimed is nothing more than reasonable and right, and it is to be hoped that all sensible men will agree to the terms proposed. The writer referred to says:

"I've been thinking, why we are made weekly, monthly, or yearly beggars, in order to keep the huttle moving in weaving this wondrous febric called the Household, where every thread must have its support and be straight, and we must supply it! Beggars, I say, for we are often received as such at our husbands purse strings, and when the means is given, the solemn injunction to spend it carefully, as it has cost him days of hard labor! And our hearts interpret it thus-he had rather have bought another field to te carelessly farmed, than to help to lessen our burden. "Cost him hard work!" And what have we worked for these long harvest much labor to prepare? Yet beneath its vanishing shadow flitted dreams of new dishes, table cloths, or perchance, "wee" pink

dresses or shoes.

"But it was not my intention to complain, handsome piece of cloth, with a proper sel- ly sells his pork and grain, and money comes vedge and all the threads drawn eventy. So in pretty freely to those out of debt,—and to certain that it will cover all household expenthing out of your income, it is yours to do with as you please; and if, from any unfore-

stiet you? a sussessor state and to solten economy in the housewife would such a course bel. What an independent thought that she is no longer a beggar and servent, but an equal! She knows on what she has to de pend, and husbands her resources accordingly." She can buy a thing when she needs it and when she can get it the cheapest, and rator are necessary to success. Ourning as save many a dime by having ready money at the way."

work of his hands with mind.

What is Needed.—We need for our dwellings To make work done by these machines reli-What is Needed. We need for our dwellings

RECOLLECTIONS OF IRELAND.

REPARED FOR THE YOUTHFUL READERS OF THE MICHLI

NUMBER TWENTY-ONE.

December. - The sun is now scarce six hours above the horizon. The farmer pounds away all day with his flail, and sometimes continues his work during a part of the night. At dark the weaver and the spinner have accomplished about half their day's work, yet bed-time finds it snugly finished. Commonly the ground is bare and soft this month, but sometimes it is frozen, and even covered with deep snow which may lie for some days, or even weeks. The rabbit and the hare will lie under it, for a few days, probably in a drowsy state, and not feeling any hunger. Then if it does not thaw they work their way up and look round the hedges for blades of grass or tender twigs. They even come round the stables to pick up bits of cabbage, blades or turnip er, people are alarmed and think it some witch come in the shape of a hare, and has sucked the cows till she is white with milk.

The thorn bedges now abound with red haws, and black sloes, the former sweet, the red haw is) to eat, and they nourish the robin red breast and a few other birds which frequent the hedges all winter.

Scholars cannot now get to school by nine, so it takes up at ten, and keeps till three .-Long ago they used to meet at seven in the winter, recite by candle light, and then go home to breakfast, but in my time they did not meet till ten, and had only one session a day. Every scholar (except those who did'nt) brought a turf under his arm, threw it in the corner, stood a minute or two beside the fire. and then marched off to his seat. A little bit of a turf fire threw no heat to the back part of the house, and many a cold toe and finger had to weather it out till evening. We would often leave our seats, and go to the fire to warm, but perhaps we had only smelled the fire, when the master would order us off to our seats. We always called the school teacher the master, and that was much more appropriate name than teacher.

When Christmas came around, we always got a week of holidays from that till Newyears. But to be entitled to that, we had to bar the teacher out, and refuse him admit tance till he promised us the holidays. Some times he would get to school before any of the scholars, and sometimes he would force the door and take up school. In such cases, the scholars had to come to order, and go to their books. Through the day, however, he would step out a moment, or perhaps some stranger appointed by the scholars would take him out to speak to him. The scholars would then slam to the door, pile the seats against it, and hold down the windows. I was always in terror in such cases, lest he would force his way in, and flog us every one. It seemed strange to me the grace with which he submitted, and came in and dismissed the school quietly. It was very unlike his domineering air at other times. When, after the hurlyburly, he came in, had the books and seats collected, and put away in the cupboard, gave the usual orders to come that day week in good season at ten o'clock, we marched out with light and joyous hearts.-We had conquered the master, and that was a feat. It is true, there was a humbling impression that he could have tried harder if rest of it, and catch sparrows when we had nothing else to do. Such were our thoughts going home. But, in the first place, the week always came to an end, and that remarkably soon.

In the second place, we did not play all the time, nor half the time. Either we could not get making a noise in the house, and it was too wet to go out, or something else stood in

In the third place, when New years came, and we had to return to school, the sparrows

that expect nothing, for they alone will escape disappointment.

And now, dear readers, if you expect anything more from me on this subject, you will be disappointed too; but perhaps you will hear from me, after a while, on something else. Good bye!

Grace Greenwood's Lecture.

Grace Greenwood, Mrs. Sarah Jane Lippincott, has been lecturing at the Tremont Theatre, Boston. The Transcript thus speaks of her:

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"The immense audience which collected at the Temple last evening had an excellent opportunity of studying womanly genius as exhibited upon the lecture platform. The exhibition was one calculated to gratify the prudent advocates of woman's rights. It is seldom that any assembly is treated to a popular effort containing so much lofty sentiment united to practical good sense, as characterized tops. If they turn white with the cold weath—the lecture by Mrs. Sarah Jane Lippincott, upon 'The Heroic in Common Life." Besides the sterling thought abounding in the production, there was a niave humor in parts of it, which excited frequent marks of approbation. 'Fine writing' was scattered throughlatter sour. They are pleasant (at least the out the lecture, which gave evidence of the wide range of the vocabulary of its well known author. Mrs. Lippincott lacks only a little of that 'blood, muscle and backbone,' of which she spoke, to be one of the most charming women ever presented to an audi-We give a few extracts from the lecture

as reported:

"Among our peculiar reforms, the Woman's Dress Emancipation is perhaps the least seriously thought of. It has against it, fashion, taste, custom, dealers in dry goods, undertakers, and the sentiment of the street (Laughter). It claims for allies, only health comfort, economy and common sense (Laughter and applause). It has fought gallantly an unequal fight, and has given examples of a kind of heroism to be respected, if not imitated; admirable, if to a degree wasted. It takes rarer nerve, often, to face a jeering rabble, than a line of bayonets. I have had my heroic moments, when I even dreamed myself equal to the role of Joan of Arc and Grace Darling; but never, in my utmost exaltation, have I felt capable of leading in this desperate effort to row against the wind and tide-perchance the mountainous billows, of ridicule. I might be tortured by the pinpricks of newspaper wit, and "smile amid my pain;" I might be cut by kigh fashion, and survive; but I must confess, " Young America" on the street corners, would appal me! (Laughter and applause.)

THE HEROISMS OF PRIVATE LIPE.

"The heroisms of private life, the slow, unchronicled martyrdoms of the heart, who shall remember? Greater than any knightly dragon-slay r of old is the man who overcomes an unholy passion, sets his foot upon it, and stands serene and strong in virtue .-Grander than Zenobia is the woman who struggles with a love that would wrong another or degrade her own soul, and conquers. The young man, ardent and tender, who turns from the dear love of woman, and buries deep in his heart the sweet instinct of paternity, to devote himself to the care and support of aged parents or an unforturnate sister, and whose life is a long sacrifice in manly cheerfulness and majestic uncomplaint, is a hero of the rarest type—the type of Charles Lamb. I have known but two such.

while brothers and sisters go forth to happy time. Seven mornings, seven days, seven homes of their own, who cheerfully lays upses.) You can keep your own books and evenings, and seven nights, we were delivered on the altar of filial duty that costliest of huyour own purse, and if you can save any. from that cold school house, and those musty man escrifices, the joy of loving and being books, and that frowning face. And then loved—she is a heroine. I have known many what enjoyment we would have! We could such. (Applause.) The husband who goes seen cause, it should prove insufficient, I will play all the time, we could plait whips the home from the weary routine and the perplexing cares of business with a cheerful smile and loving word for his invalid wife; who brings not against her the grievous sin of a long sickness, and reproaches her not for the cost and discomfort thereof; who sees in her lauguid eye something dearer than girlish laughter, in the sad face and faded cheeks that blossom into smiles and even blushes at his coming, something lovelier than the oldtime spring roses—he is a hero. I think I know one such. (Laughter and applause.)

The wife who bears her part in the burwere still in the hedges, and worse than that, the cages we intended to put them in, were —bravely! cheerfully; never dreaming that To make work done by these machines reliable, great care is necessary to have them
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able is a heroine, much less a martyr; who
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sympathy and sentiment, and from seeking for perilous "affinities;" (laughter;) who does not build high-tragedy sorrows on the inevitable, nor feel an earthquake in every family jar, who sees her husband united with herself indissolubly and eternally in their childrenshe, the wife in every truth, in the inward as in the outward, is a heroine, though of rather an unfashionable type.

BACKBONE.

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Mrs. L. then spoke of what she called the undeniable fact that since the heroic days of the Revolution, the women of America have wofully degenerated in blood, muscle and

"Now, for a moment," continued Mrs. L., elet us suppose the city of Boston besieged by some powerful force, and after making a brave resistance, as I have no doubt she would, compelled to yield at last to superior num bers; and let us suppose the conqueror, like Conrad, dooming to death the contumacious men of Boston, but granting to the women the same terms that were granted by him .-Alasi should the same happy thought occur to them, how few could or would avail themselves of it! (Laughter.) Though the spirit might be willing the flesh would be weak!-(Renewed laughter and applause) Heart might hold out, but backbone would surrender! (Continued merriment.) Loving wives might resolve to die with their husbands, but not dare to attempt thus to save them .-Hearts would palpitate, knees tremble, and spinal cords grow limp as pack-thread at the thought! (Laughter and applause.) Here and there a rash Juliet, measuring her strength by her love, might make an effort for Romeo, but only to be compelled to lay down the it is true, may be cooked so as to be eaten dear burden, after staggering with it for a and a person brief space-laying down, at the same time, the part of Capulet, and taking up that of the Nurse, to cry, "Oh, my back!" back!" -(Loud Laughter and applause.)

In conclusion, Mrs. L. couselled her hearers not to allow the opportunities for the heroic deeds which occurred in common life to pass by, thinking them not grand enough for the experience, for by and by the work they rejected would be taken up, and the world hail it with acclamations and benedic-

I doubt not, said she, we shall yet see that the heroic element in common life, in common people, is a sacred, sustaining power, vital and regenerating the heart's blood of the world. (Loud applause.)"

· Curing Colds.

It would be to the saving of human health and happiness, and life itself, if the periodical press would never publish a receipt for any human ailment, which involved the taking of anything into the stomach.

Some scrap-editor characterizes it as an excellent remedy for a cough caused by a common cold, to soak an unbroken egg for forty-eight hours in a half-pint of vinezar. forty-eight hours in a half-pint of vinegar, then add as much honey, break up all together, and take a tea-spoonful for a dose sever-

If the writer of that recipe had possessed the smallest amount of common observation he would have known that if a man begins to cough, as the result of a common cold, it is the efforts of nature herself attempting the the efforts of nature herself attempting the cure, and she will effect it in her own time, and more effectually than any man can do, if she is only let alone, and her instincts cheriable. What are those instincts? She abhors fool, and craves warmth. Hence, the moment a man is satisfied that he has taken a I want those who have never eaten food cold, let him do three things: 1st, est not cooked in any other manner than in a close an atom; 2d, go to bed and cover up warm oven-stove, to reason upon the subject with an inquiring mind, whether there is not some

"Freed a cold and starve a fever" is a mischievous fallacy. A cold always brings a fewer; the cold never begins to get well until the fever begins to subside; but every monthful swallowed is that much more fuel to feed the fever, and, but for the fact that as soon as the cold is fairly seated, nature, in a kind of desperation, steps in and takes away the appetite, the commonest cold would be followed by very serious results, and in frail people, would be almost always fatal.

These things being so, the very fact of waiting forty-eight hours, gives time for the cold for itself in the system; for a cold does not usually cause cough until a day or two has passed, and then waiting two days longer gives it its fullest chance to do its work before any thing at all is done.—Hall's Journal of Health.

Hall the natural juices, so that the taste was savory, delicious, rich, toothsome, just as they were in old time, when roasted before a wood fire. I repeat: it is not so much matter what we have to eat, as it is how it is cooked. I am not here to give cookery lessons, but urge the necessity of thinking more upon this all-important question.

"I want somebody to thing and act upon this principle, partially developed in Pearson's stove, whether working on a large scale cannot be done in ovens supplied with hot air from a distant furnace, as our rooms are heated. If air can be heated hot enough to drive a "caloric engine," perhaps it can be heated hot enough to bake a loaf of bread Who knows? Do those who cook meat ever try to know why one piece is not only more toothsome, but more nutritious than another? "Feed a cold and starve a fever" is a mig-

A Chapter on Cooking.

Solon Robinson before the Farmer's Club of New York, gave the following spicy and sea sonable lecture on cooking. There is much truth in what he says, and women are far too careless about the philosophy of preparing food. To get it done with as little trouble and care as possible, is the main thing. The consequences resulting from how it is done, are seldom thought of:

"A word about cooking our food. There is where we suffer, more than in the variety we consume. Simplicity in cooking is at an end. That west out when cooking-stoves came in. These iron monsters, that save fuel and consume human life; that have driven the old wood fire and great stone chimney and huge oven almost out of memory, except to a few old fogies, like myself, who have the harhihood to declare that no man ever knew what a good roast was, whether of beef, mut what a good roast was, whether of beef, mut ton, real, pork, goose, duck, or a glorious fat turkey, who has not eaten it that was cooked before a wood fire, suspended by a string, or supported by a spit resting on the ponderous fire-dogs. To be sweet, nutritious, and delightful to the palate, a roast must be cooked in the open air. The oxygen of the free atmosphere is just as necessary as fire to free atmosphere is just as necessary as fire to make a good roast.

"It is a condition of things unattainable in "It is a condition of things unattainable in all the family of cooking-stoves and ranges, unless one lately invented obviates, in some measure, as I believe it will, this great difficulty, which makes us so long after the good old times of tow strings, spits, wood fires, and deliciously good, wholesome roast meat, Ah! how different from the empyreumatic than the strings of striff called "roast meat," cooked masses of stuff called "roast meat," cooked in the almost air-tight oven of a stove.—
And it is just as impossible to make good bread in one of these cast-iron monsters as it is to roast meat. Both meat and bread, and a person who does not know any better, will suppose it is as good as it is possible to make it. It is not so. No man or wo-man ever ate stove-cooked corn-bread that

was so good as an old-fashioned johnny-cake, baked upon a board set up between the firedogs. And who that ever tasted them can forget the Yankee "short-cakes" or raised biscuit, baked in the old Dutch oven, where the lid was only half on, or was often taken off to see that the baking did not burn, letting in every time a full charge of oxygen to be absorbed by the baking dough. There was in those days no danger of dyspepsia from esting but bread. Devend upon it this from eating hot bread. Depend upon it, this whole subject of food and its preparation needs ventilation. It cannot be too much thought of and talked of, in public or in the family circle, which, alas, no longer sits around the hearthstone of the great stone fireplace. I will answer the question as to the stove alluded to, that I hope will obviate some of the difficulties of cooking that I have mentioned. It is called "Pearson's Respiratory Cooking Stove," and was patented a year ago only, and of course has not yet got into general use. The principle developed is the true one, and it should be at once applied to all stoves and ranges. A current of air is drawn in and heated by the fire and conveyed into the oven, thus supplying oxygen that in a close oven is consumed and soon exhaust-

my greatest objection to food cooked in an ordinary stove-oven. It is certainly very difficult to produce that empyreumatical condition of meat in the oven of this respiring stove that always attends the cooking in an ordinary one. The same smell attends the cooking in this that we have from a joint hung up before an open fire-place. That is, it is pleasant, instead of being very disagree-able, and often sickening, as it always is from a I want

ter as he wants, or as much hot herb tea as he can, and in three cases out of four, he will be almost entirely well within thirty-six hours.

If he does nothing for his cold for forty-cight hours after the cough commences, there is nothing that he can swallow that will, by any possibility, do him any good; for the cold, with such a start, will run its course of about a fortnight, in spite of all that can be done, and what is swallowed in the meantine, in the way of physic, is a hindrance and not a good.

better way. I want them to know that meat cooked in a current of fresh air is not only more palatable, but more nutritious. For instance—this breathing-stove of Pearson's was tested about a month ago by a very respectable Committee of the 'Bhode Island Association for the Encouragement of Domestic Industry,' and their report says that a fire was kindled in a medium-sized stove, and in 3½ hours they had upon the table 10 pounds of mutton, 9 pounds of roast beef, 8 pounds of steak, 8 pounds of sweet potatoes, 6 large pies, and a pan of biscuits; and that the meats were really roasted, and retained nearthe meats were really roasted, and retained near-ly all the natural juices, so that the taste was savory, delicious, rich, toothsome, just as they were in old time, when roasted before a wood

THE KEEP COSSTANTS

In the generally supposed simple act of boiling a piece of beef, there is great need of more thought. To day it is rich, juicy, nutritious. To-morrow; "as dry as a chip," and containing but little more sustemence.—
Why? Both pieces were cut side by side, and both should have been equally good.— And being cooked only one day apart, it is in vain to charge it to the influence of the moon. It is rather the influence of ignorance on the part of the cook. I doubt whether one in ten of them can tell the cause of the difference. I have never yet found a servant girl that could be convinced of the important that could be convinced of the important necessity of never putting a piece of meat into the pot, unless the water was boiling and the fire in a condition to keep it boiling.— The same principle is true of baking. Al-ways put the meat, or bread, at first into a very hot oven, or before a very hot fire.— That is one of the secrets of the johnny-cake the dough was placed in such close proximity to the hot coals that it seared over and shut the sweetness in, and then had to be moved back a little to prevent burning.—
And the secret of the ventilated, or hot-air oven, is, that a higher heat could be main tained, without danger of scorching. But

Household Varieties.

talking about."

enough of my lesson on cooking for one day.

It is a question that will bear a great deal of

Paris Fashions .- The signs of coming winter are abroad, in the shape of the light burnous or mantle, which half conceals and yet not hides the graceful autumnal attire which ladies are loth to quit. The large casaques in black silk are also much in vogue, as they are likely to be for a long time, being graceful and suitable to all seasons when lined according to the requirements of the

As for dresses, they are either plain or bedecked with flounces so numerous as almost to defv calculation. We have seen one regularly flounced all the way up to the top of the shoulder, compris ing about two dozen flounces; and another in which there were as many, only more compres leaving about the third of the upper part of the skirt ungarnished. Should this fashion prevail to a large extent the present number of modistes will not be able to satisfy the demands of their customers during the coming winter.

In honnets there is little novelty to signalize, unless it be a tendency to slightly increase the size without altering the shape; the bavolets are still worn very wide, and the strings also.

Large chessboard-looking black and white woollen shawls are prevalent; and, although we do not much admire them, still we must introduce them to our fair readers, as in duty bound .- Lon don Blustrated News.

Portrait of Rosa Bonheur .- In person she is small and rather under the middle height, with a finely formed head, and broad, rather than high forehead; small, well defined, regular features and foreneat; small, well denned, regular natures and good teeth; hazel eyes, very clear and bright; dark brown hair, slightly wavy, partet on one side and cut short in the neek; a compac, shapely figure; hands small and delicate, and extremety pretty little feet. She dresses very plaily, the only colors worn by her being black, brown and her continue competits invariable of gray; and her costume consists invariably of a close fitting jacket and skirt of simple materials. On the rare occasions when she goes into com-pany-for she accepts very few of the invitations with which she is assailed—she appears in the same simple costume, of richer materials, with the addition merely of a lace collar. She wear one of the usual articles of feminine adorpment they are not in accordance with her thoughts and occupations. At work she wears a round pinafore, or blouse of gray linen, that envelopes her from the neck to the feet. She impresses one at first sight with the idea of a clear, honest vigorous, independent nature; abrupt, yet kindly; original, self centred and decided, without the least pretension or conceit; but it is only when you have seen her conversing earnestly and heartily, her enthusiasm roused by some topic connected with her art, or with the great humanita rian questions of the day; when you have watched her kindling eyes, her smile at once so sweet, so beaming and so keen, her expressive features irradiated, as it were, with an inner light-that you perceive how very beautiful she really is.

perceive how very beautiful she really is.

Ross Bonheur is an indefatigable worker. She rises at six and paints till dusk, when she lays aside her blouse, puts on a bonnet and shawl of most unfashionable appearance, and takes a turn through the neighboring streets alone, or accompanied only by a favorite dog. Absorbed in her through the neighboring streets alone, or accom-panied only by a favorite dog. Absorbed in her around her, the first conception of a picture is ofin the twilight .- Mrs. Ellet.

For Our Young Friends.

What Little Norman says about his Favorite Kitten.

My kitten is nest-She loves to eat meat: And whenever she pleases, can walk in the street. She never complains Of any hard pains, But always seems happy, except when it rains.

My kitten is sweet-She has little, soft feet;
And the fur on her back is very complete.
She seldom is sick,
And always looks elick; And whenever I call her she runs to me quick.

My kitten will play
With a mouse as she may,
Whenever one comes right along in her way. 'Tis her nature, you see, Thus playful to be, Until she is tired—then quiet she'll stay.

My kitten is fat—
She will soon be a cat;
Instead of a mouse, she will then catch a rat.
She will then use her paws,
And scratch with her claws,
And thus she fulfills one of puscy-cat's laws.
Grandra, in Merry's Museus

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This machine sews from two spools, as purchased from the store, requiring no rewinding of thread; it Hema, Fells, Gathers and Stitches in a superior style, finishing each seam by its own operation, without recourse to the hand-needle, as is required by other machines. It will do better and cheaper sewing than a seamstress can, even if she works for one cent an hour. Send for a Circular.

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KENTUCKY INSTITUTE, LOUISVILLE, MECHANICAL ASSOCIATION, St. LOUIS, MECHANICS' INSTITUTE, CHICAGO, at the State Fairs of

Maine, Vermont, Connecticut, New York, New Jersey,
Pennsylvania, Virginia, Mississippi, Missouri,
Ohio, Indiana, Illinois, Kontucky,
Wisconsin, California, Michigan,
And at hundreds of County Fairs.

The Stitch taken by this Machine is not a Chain Sisted, but a LOOK STITCH; alike on both sides of the fabric sewed. Particular attention is invited to the

NEW STYLE MACHINE FOR \$52.00. (\$57 WITH HEMMER.) We will warrant them equal in every respect, for duability and practical use, to the highest priced Machines TERMS, INVARIABLY CASH.

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L. D. & H. C. GRIGGS,
Gen'l Agents for Michigan,
145 Jefferson Ave., Detroit.

PEAR SEED! PEAR SEED!! THESH AND OF SUPERIOR QUALITY.

And at reduced rates to Nurserymen and others ordering large quantities.

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FRESH APPLE SEED, 40 cts per quart, \$7,00 per bush.

BLACK MAZZARD CHREEY PITS, 50c % qt., \$10 % bus.

APRICOT PITS, 75 cents per quart.

STRAWSHRAY BEED (12 varieties) \$2 per oz.

QUINCE SEED, \$5 per B.

WEYMOUTH PINS SEED, \$3 per B.

HONSY LOUDEY do 75 cts per B.

YELLOW do do 75 cts per B.

Together with the choicest and most extensive collection of Garden, Field, Flower, Tree and Shrub Seeds in the Union.

tion of Garden, Field, Flower, Arec und San as the in the Union.

TURAL SEEDS will be ready by the 1st of January. We will also publish a preliminary TREE AND SHEUB SEED CATALOGUE OB or about the 15th of December.

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N. B.—Just harvested, a limited supply of genui-road Leaf Connecticut Tobacco Seed, at 25c per oz.

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On Wednesday, December 14th, 1859.

Having sold my farm, I now offer for sale, on the premises, in the town of Lyons, one mile south of the Grand River Plank Road, on the town line between Lyons and Novi, the following property, to-wit: 16 head of eattle, consisting of Cowa, Helfers and Calves, 1 three year old Bull, is pan of Horsos, 1 Lumber Wagon, 1 Lumber Sleigh, 1 set of Harness, Plows, Harrows, Chains, &c.; also a quantity of Hay and Corn Fodder.

Also, on the same day and place, I will sell eight head of Cattle, consisting of Cows, Helfers, and I three year old Bull, sired by imported John O'Guant.

M. L. BROOKS.

**ERMS OF SALE—All sums less than \$5, cash; over \$5.a credit of one year will be given, with approved mote on interest.

"ERMS OF SALE—All parties of the given, with the strength of one year will be given, with the sole on interest.

Base to commence at 10 o'clock A. M. WM. HUNTER, M. L. BROOKS.

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AMERICAN STOCK JOURNAL.

AMERICAN STOCK JOURNAL,

THE great success which has attended the publication I of the First Volume of the AMERICAN STOCK JOURNAL, has induced the proprietor to undertake several improvements for the volume commencing January 1860, and he now offers it to the public with the assurance that its present high character will be suctained, and no effort will be saved to ronder the paper an indispensable necessity to all interested in the Breeding and Management of our Domestic Animals.

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Waters, Lathrop & McNaughton,

JACKSON, MICHIGAN.

IT IS NOW definitely settled that these are THE MACHINES which our farmers want. The high eaconiums and numerous awards of "First Premiums" which they have received at State and County, Fairs, this year, as well as formerly, are well as-rited.

**A much more conclusive proof of their Surpassing Excellence, is furnished by the many Field Tricle which they have had, by FARMERS, on their own lands, at their own leisure, and in open competition with All other Mowing and Reaping Machines.

In every such trial, "THE BUCKEYE" has received the decided approbation of the Practical Farmers. AT THE GREATEST PRACTICAL FIELD TRIAL

Ever held in this country, at SYRACUSE, N. Y., JULY, 1857. THE FIRST PREMIUM! Grand Gold Medal and Diploma! Offered by the

UNITED STATES AGRICULTURAL SOCIETY. For the

BEST MOWING MACHINE.

Was awarded to this Machine, over Manny's, Ketchum's, Burrell's, Hallenbeck's, Allen's, Kirby's, Heath's, Hovey's, The

Ohio Mower, and a number of others.

It has also received at the Indiana State Agricultural Society's Field Trial, Trumbull county, Ohio,
Clark county, Ohio,
Albany county, New York,
Queen's county, L. L.,
Duchess county, New York,
Portago county, Ohio,
Summit county, Ohio,
And st

MANY OTHER FIELD TRIALS:

competitors, in many field trials, among the farmers themselves, with the single object of satisfying themselves which was the best machine.

The BUCKEYE also received the New York State Agricultural Society's First Premium, 1898.
Connecticut State Fair, Go do do Maryland State Fair, Eastern Virginia State Fair, Eastern Virginia State Fair, First Premium, 1898.
And the Michigan State Agricultural Society's Fair in 1859, and numerous other

State, County and Town Awards!

State, County and Town Awards I

It is, therefore, with the utmost confidence that they are now offered, (after the successful trial by more than 200 farmers of Michigan during the last summer) as the very machine which their fellow farmers want—auted to every variety of grass and grain and to every variety and state of soil—wet and marshy or dry and stony.

We intend to manufacture in the best manner, all the Mowers and Reapers which the farmers of Michigan need—if they will let us know in good time (and the sooner the better) how many they will want.

They cannot be hurried up on short notice, and the cash outlay for them is too large and the profit too small, for us to make a large number more than will be wanted. Therefore, when the farmer knows what he wants, the sooner he gives his order, the more certain he is to get the right article at the right time.

WATERS, LATHROP & McNAUGHTON.

Jackson, Oct. 1859.

SUMMER COMPLAINTS. Viz: Diarrhea and Cholera Morbus, and Flatulent and Spasmodic Colics.

WE, THE UNDERSIGNED, have for several years B. FOSGATE'S ANODYNE CORDIAL,

and during this period have witnessed its salutary effects in ouring the diseases for which it is recommended, viz Acute and Chronic Diarrhea and Cholera Morbus,

in our own, and in the families of our customers, and have also seen its successful administration in cases of

CHOLERA INFANTUM. We lo, therefore, confidently recommend it to all those who may be afflicted with those distressing and danger one complaints, as offering one of the best means for their cure or relief:

their cure or relief:

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J. Foot, Hamilton.
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L. Kelly & Co., Geneva.
S. Wette & Sox, Fredonia, L. Reddy, Pont Yan.
A. P. Curris, Attica.
W. Szavez & Sox, Batavia, J. Owan & Co., Detroit,
J. G. Barleer, Legoy.
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N. B. Lite particularly useful to Children whee

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N. B. Its particularly useful to Children when
Teething, as it aliays irritation, induces moderate
perspiration and produces sleep.

Sold by Druggists generally. Prion 25 Cents.

C. N. TUTTLE, General Agent.
Aubura, N. Y.

FAILURE OF THE HAY CROP CUT YOUR FODDER AND SAVE MONEY. THE CLIPPER HAY, STRAW AND STALK CUTTER.

Took 1st Premium at the State Fair for 1859. IT DOES ITS WORK FASTER AND BETTER; is more simple in its construction, and is sold at a lower price than any other Machine in market.
It needs only to be seen and tried to be appreciated.
Manufactured and sold by
O. P. WOODRUFF & CO., Detroit,
And for sale in all parts of the State.

FRUITTREES. CULTIVATED AND POR MALE AT THE

Waterloo Nursery, Monroe, Mich. W STEFIO NUISET, Monitos, Mich.

THE SUBSCRIBER has no established and enlitvated
a large quantity of at best varieties of sound Grafed Fruit Trees, of all imda, on his Farm on Front street,
in the City of Monra, where he offers for sale on reasonable terms, by any quantity this fall and next spring.—
All those desires to purchase are invited to call and
judge for themselves.

Sept. 20th, 1859.

N. B.—Any order will be promptly attended to, and
sent to any station of any railroad, or elsewhere.

M. F

MAMMOTH GIFT BOOK STORE 202 Jefferson Avenue, Detroit. FOOKS sold at Publishers' prices, and with each book

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AT THE AMERICAN SERD STORE, 36 Reshels of A Peach Pitts and Plum Pitts, for which Cash will be paid. Detroit, Nov. 13. [47-84] BLOSS & CO.

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S. FOLSOM, WAM WOOL DEALER, 90 Woodward Avenue,

DETROIT. MICHIGAN.

THE MARKETS.

Flour and Meal.

has been received from Europe, the effect of which has been greatly to excite the New York market, and with it all smaller markets of the interior. The advance in

Prices are about a shilling higher than last week, being

new \$4 87% a5 19%. Wheat—The market has been very poorly supplied with this grain for a week past, and very few considerable lots have changed hands. The greater part of the trade has been monopolized by the city mills. Prices are fully up to the highest we have had this fall, being \$1 12½ for red and \$1 20a1 25 for white.

Corn—Inactice. A few lots have been taken at about 560 for No. 1 shelled. Ear corn we quote 590 per 70 pounds.

pounds.
Outs—Dull and nominal 36c. No sales are reported.
Rye—In good demand at 68a70c. Very little arriving.
Barley—Steady at last week's quotations. Prime readily commands \$1 40 per cwt, and some holders ask a few cents more. Fair quality we quote at \$1 38a1 87.
Peas—Quiet at 6234675c per bu.
Beans—Entirely nominal 65a90c.
Grass seeds—Timothy is in fair request. \$2 per bu is covered by there is none in market.

ffered, but there is none in market.

Potatoes—Dull at 25a30c, the latter for the best Me-

or or hard grant, 15	Pro	vision	B. Arthaniv	TTO DIES!	
prices are	hogs—The m fully 12%a25c				
Hoga avera	ging 150 lbs	in yh		. \$4 50a	47

The prices for dressed hogs averaging 200 lbs at other makets at latest accounts were as follows:

Mess pork—The better feeling in hogs has cau

alf is now asked.

Beef—The Market for mess beef is steady at \$9a9 50

Lard and Tallow-Are without change, being held at Butter—Also is steady at last week's figures. Prime
firkin commands 14a15c and roll 16a17c.

Eggs—Scarce and in good demand at 16c.

Hides—Lower. Buyers now offer for green 4%c, dry
16a12%c; call 9c for geen and 18c for dry; horse 50ca\$1
each; sheep pelts in good demand at 88ca\$1 12 sach.

In this city there is very little change in the live stock market from week to week. Now that beef packing is ever the trade in cattle is confined almost exclusively to he supply of city butchers, and hence prices fluc but little. Sheep for the same reason are steady at forer quotations. Hogs are scarce and in better demand r packing, prices for the same being a trifle higher than st week. We quote:

| This week. Last week. | Last

Sheep and Lambs—The arrivals are heavy and the sality miserable, many of them being only "stores."—he weather is against the sellers, as the buyers here want cold, freezing weather, to encourge thom to heavy purchases. Prices have fallen off about 33e per head, as will be noticed by the average paid by the heaviest pur-chasers here.

chasers here.

Milch Cows—In fair request, Sales about twenty, at mices ranging from \$30 to \$50.

Rogs—The receipts are increasing and the demand improves. The bulk of the business in live hogs at this point is transacted at East Albany, Last fall and winter hearly all the sales were made at Wood Albany. Instead of being brought to the city and taken across on the ferry beats, they are taken to East Albany by the way of Troy, and the trouble and expense of driving through the city is avoided. Twenty-three car loads, or about 3,000 heat, went round by way of Troy, yesterday.

The telegraph give the following synopsis of the New York market on Weinesday:

Beeves active at full is week's prices, ranging from 6 to 10, averaging about 8: some extra sold at 10%. Re-Sheep and lambs active at fus rates, Eccepts 14,-

Swine in fair request at 51/a5%. Receipts 12,500.

Swino in fair request at 54a5%. Receipts 12,500.

The Pork Market—The Cincinnati Guette seems to indicate that there will be a prospect of an advance in the prices of pork, It says:

"There is now a sweeping excitement in the market for hogs and products, which is carrying everything betweet, and patties who undertake to keep in the current, are carried shead by the apparently mysterious influences that control the trade. Saveral houses dropped out when prices touched \$6, and are holding back awaiting the developments of the next two weeks, within which time it is supposed will be more liberal. A large number of hogs, and a still greater amount of products, have been said short, the deliveries of the latter being shiely for January and February, and thus a powerful "bull" support is heing secured. All this is working very well for farmers, who are realisting high prices for their hogs—fully \$2 per head more than they any reason to expect.

CROYER & BIREE'S BEE-HIVES!

IN 1854 I published in the "Farmer's Companion" an account of the new and important invention of Rev. L. L. Langstroth, of what he termed a "Movable-comb Bee-Hive." The subject of bee culture had always been one of ne small importance in my view, and for the last ten years I have watched with great interest the progress of Bee-culture both in Germany and this country. Since the announcement of Mr. Langstroth's invention I have been watching it closely, until I am well satisfied, from a full trial, that it is the most important step ever made in bee-keeping. And after ascertaining that it was no humburg, but that it was truly a great improvement on the old mode of keeping bees, I purchased the right and title to Branch and St. Joseph counties, Mich., and now offer individual rights in those counties. If after a fair trial the hive does, not prove satisfactory. I agree to return the price paid and take the hive back; thus avoiding all risk on the part of the purchaser.

All other movable frame hives are infringements on the Langstroth Patent, and preparations are now being made to prosecute all such impositions on the public.

Address me at Burr Oak. [47-8m] CHAS. BETTS.

IMPORTANT TO FARMERS

EORGE BEARD, Wholesale dealer in Oyste Fruits, Game, &c., will pay the highest mark price for Choice Fruit of all kinds, Game, Foultry, &c. Russell House Corner, Detrokt. 48-19

PUREBLOOD LEICESTER & SOUTHDOWN SHEEP FOR SALE.

THE UNDERSIGNED invites the attention of the Farmers of Michigan desirous of procuring Leicester and Southdown sheep for breeding purposes, to his flock from which he proposes to sell one and two years old, both ewes and bucks at lew prices, also April lambs weighing from 80 to 105 pounds. E. T. BRYAN.

Marengo, Calhoun Co., Michigan, Oct. 18, 1859.

WOOL! WOOL!!

30,000 POUNDS OF WOOL WANTED A TOSHORN'S FACTORY in exchange for good substantial cloth such as DOESKIN, CASSI-MERE, BLAOK, BROWN and GRAY CASSIMERES, SATINET, TWEEDS, WHITE and RED FLANNEL, also STOCKING YARN, all of which were made expressly for durability. We will exchange for wool on the most reasonable terms, also wool manufactured on ahares, or by the yard, also wool carded, and spun, and twisted at our usual rates. All those in want of a good article of cloth for their own use, will do well to send their wool to Osborn's Factory. All work warranted well done and done to order. All wool sent to Ann Arber by Rail Road will be promptly attended to. For further particulars please address at Ann Arbor, 28-6m*

H. OSBORN & CO,

WALLACE'S WOOLEN FACTORY. BATTLE CREEK, MICH.

THE SUBSCRIBER continues to manufacture wool into CLOTH, CASSIMERE, TWEEDS and FLANNEL for farmers, either on shares or by the yard.—Terms as reasonable as any other good establishment in the State. Goods warranted perfect, hard twisted, and durable, free from cotton, old rags or flocks.

Farmers if you want a good article of cloth, send on your wool; it may be sent by railroad, with directions, and shall be promptly returned, and warranted to give satisfaction or all damages paid.

A large stock and good variety of cloths, stocking yarn, &c., always on hand.

He will pay the highest market price in cash, or cloth at wholesale prices, for any quantity of wool delivered at his factory.

Actory.
Wool carding and cloth dressing done in the best man ner on short notice.
WILLIAM WALLACE.
Battle Creek, May, 1859.
28-6m D. APPLETON & CO.,

346 AND 348 BROADWAY, N. Y. Have Just Published, VOLUME VII.—("Edw—Fue.")

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LAW. HISTORY, CHEMISTRY, MECHANICS, TRADE, With this design, the numerous Encyclopsed Dictionaries of special branches of study and popular conversations, Lexicons, in the English, French, and German languages, have, of course, been diligently consulted and compared. But the NEW AMERICAN OY-CLOP EDIA is not founded on any European slodel; in its plan and elaboration it is strictly original. Many of the writers employed on this work have enrished it with their personal researches, observations and slooveries. As far as is consistent with thoroughness of research and exactness of statement, the popular method has been pursued. By condensation and brevity, the Editors have been enabled to introduce a much greater fariety of subjects than is usually found in similar works, and thus to enhance the value of the NEW AMERICAN CYCLO-P.EDIA as a Manual of Universal Resirence. At the same time an entertaining style has been aimed at wherever it would not interfere with more important considerations. Special care has been bestowed on the department of Living Biography.

same time an entertaining style has been aimed at, wherever it would not interfere with more important considerations. Special care has been bestowed on the department of Living Biography.

In the preparation of the present volume, nearly a hundred collaborators have assisted, including persons in almost every part of the United States, in Great Britain, and on the Continent of Europe whose names have attained an honorable distinction, each it some special branch of learning. No restriction has been imposed on them, except that of abstinence from the expression of private degunatic judgments, and from the introduction of sectarian comments, at war with the historical character of the work. In this fact, it is looped will be found a guaranty of the universality and impartiality of the NEW AMERICAN CYCLOP EDIA, which, the Publishers do not hesitate to say will be superior in extent, variety and exactness of information to any similar publication in the English language.

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Five volumes have already been issued, and the remainder will be published as fasts as they can be got ready.

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Horse (tread) Powers, Pease's Excelsior Powers,
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THE PROPRIETOR of these Nurseries the most ex-tensive in the world, has the honor to inform his nu-merous friends and the public that his Catalogue of Fruit and Ornamental Trees, Shrube, Rosce, Seedlings,

by the present season is mow ready and at their disportant as heretofore to F. A. BRUGUIERE, and-lem 51 Cedar Street. Name of the conditions of the conditio SEEDS, SEEDS!

PRESENT SHAMEN SEEDS, of LAST YEARS growth and warranted. Also, Spring Wheat, Sweet Potatoes of several kinds King Philip, Flour, Dutton, Right Rowed and Sweet Corn, Timothy, Clover, Barley Pean, &c., at 168 Woodward Ave. Detroit

1859. WINTER ARRANGEMENT. 1860.

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DETROIT, MONROE and TOLEDO

RAIL ROAD. MOMBOE, CHICAGO, TOLEDO, CINCINNATI AND CLEVELAND LINE,

With its connections, forms a Through Boute from Detroit to Monroe, Adrian, Chicago, Toledo, Sandusky, Cleveland, Dayton, Hamilton, Cincinnati, Pittsburg, Wheeling, Harrisburg, Philadelphia, Baltimore, Washington, Erie, Dunkirk, Buffalo, Albany, New York, Roston Montreal, Quebec, Portland, Rouse's Point, and all points interior, in Onio, Pennsylvania, New York, and the New England States, and all points West and South-West.

ON and after Menday, November 14th, 1859, Passenger Trains will run as follows:
FEOM DETEOIT, Mail and Express, daily except Sundays, at 9,30 A. M., arriving in Chicago at 10.30 P. M., and Toledo at 12.37 P. M.
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Connect also at Adrian with Jackson Branch Trains for Jackson.

Connect at Toledo with Dayton and Michigan Road, for Dayton, Hamilton and Cincinnati; with the Cleveland and Toledo Road, for Sandusky, Cleveland, Pittsburg, Dunkirk, Buffalo, Albany, Boston and New York; with Wabah Valley Road for Fort Wayne, and points Southwest, and with Air Line Rail Road for Bryan, Kendalyile, Ligonier and Goshen.

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Time and Fare the same as by any other Rail Road route.

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THE HAND SCARIFIER.



PRICE \$3.50.

WE offer for sale the Hand Scariffer, the most desira-ble and useful implement for gardens, of any that has been invented, and the most perfect labor saver. Read the testimony of those who have tried it last

Read the season:

Rochester, Oakland, Co., Mich., Febt., 1859.

Messes, Bloss & Adams:

You cannot recommend too highly your Hand Scarifor. It is an invaluable machine for cultivating all root crops sown in drills. It works easy, a boy of 12 years old can use it and do more work than five men can with hees in the same time. It pulverises the surface of the ground and kills all the weeds. I had one the last season and speak from experience. A person having a quarter of an acre of garden to cultivate should not be without one and no farmer or gardiener after using one a single hour would be without one for four times its cost.

W. JENNINGS.

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MISSIS. BLOSS & ADAMS:
In answer to your inqury, "How we like the Hand Scarifier," we reply that we are highly pleased with it.—It is the greatest labor saving machine for its cost that we have ever used, or seen. For all root crops sown in drillist is invaluable. One man with this machine can do more work in one day than five can with noes, and do it better. We have used it two seasons and would rather pay twenty deliars for one than do without it.

Your respectfully,

JULIEN ADAMS.

These implements are for sale, by the subscribers at MESSES, BLOSS & ADAMS:

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Yours respectfully,

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These implements are for sale, by the subscribers at heir their seed store,

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The machine cost of transportation. The machine seed store, as a cally as a plane. With this machine, any farmer who has a fair quality of clay on his farm, can manufacture his own Tiles at a cheap rate, and easily save the price of the machine by avoiding the cost of transportation. The machine when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, taken up he more room than an either when in operation, the machine can be packed and sent to any part of the United States, as a raduced price.

These implements are for saile, by the subscribers at a radius of the form particular to

Would invite the attention of the Farmers of Michigan when visiting Detroit, to their extra

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Embracing every variety of Emoracing every
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Window Shades, 5, 6, 12, 18 and 24 foot, 711 Cloths, 8, 6, 12, 18 and 24 foot, 112 Cloths, 12, 18 and 24 foot, 112 Cloths, 12, 18 and 24 foot, 18 which we offer cheap for cash.

Which we offer cheap for cash.

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THE

GREAT WONDER OF THE NINETEENTH CENTURY,

PROFESSOR WOOD'S HAIR RESTORATIVE.

Says the St. Louis (Mo.) Democrat: Below, we publish a letter to Dr. Wood, of this city, from a gentleman in Maine which speaks glowingly of the superior merits of his hair tonic. Such evidence must have its effect, when coming from a reliable source. If certificates are guarantees of truth, the Dr. needs no encomiums, nor useless puffery from the press:

BATH, MAINE, Jan. 20, 1856.

Professor O. J. Wood & Co.,

Professor O. J. Wood & Co.,

GENTIEMEN: Having my attention called a few months since to the highly beneficial effects of your hair restorative, I was induced to make application of it upon my own hair, which had become quite gray, probably one-third white; my whiskers were of same character. Some three months since I procured a bottle of your hair restorative and used it. I soon found it was proving what. I had wished. I used it about twice a week. I have stone procured another bottle, of which I have used some. I can now certify to the world that the gray or white hair has totally disappeared, both on my head and face, and my hair has resumed its natural color, and I believe more soft and glossy than it has been before for twenty-five years. I am new sixty years old; my good, wife at the age of fifty-two, has used with the same effect.

good wile at the age of inty-two, and most with a teffect.

The above notice I deem due to you for your valuable discovery. I am assured that whoever will rightly use, as per directions, will not have occasion to contradict my statements. I am a citizen of this city and a resident here for the last fifteen years, and am known to nearly every one here and adjoining towns. Any use you may make of the above, with my name attached is at your service, as I wish to preserve the beauties of nature in others as well as myself. I am, truly, yours.

A. C. RAYMOND.

WOOD'S HAIR RESTORATIVE. Professor Wood—Dear Sir: Having had the misfor-tune to lose the best portion of my hair, from the effects of the yellow fever, in New Orleans in 1854, I was in-duced to make a trial of your preparation, and found it to answer as the very thing needed. My hair is now thick and glossy, and no words can express my obliga-tions to you in giving to the afflicted such a treasure. FINLEY JOHNSON.

The undersigned, Rev. J. K. Bragg, is a member in regular standing, and paster of the Orthodox Church at Brookfield, Mass. He is a gentleman of great influence and universally beloved.

WM. DYER.

Brookfield, January 12, 1858. Brookfield, January 12, 1858.

Professor Wood—Dear Sir: Having made trial of your Hair Restorative, it gives me pleasure to say, that its effect has been excellent in removing infiamation, dandruff and a constant tendency to itching with which I have been troubled from my childhood: and has also restored my hair, which was becoming gray, to its original color. I have used no other article with anything like pleasure or profit.

Your truly,

Your Size, vig. 18. BRAGG.

pleasure or pront.

The Restorative is put up in bottles of 8 sizes, viz: large, medium, and small; the small holds ½ a pint, and retails for one dollar per bottle; the medium holds at least twenty per cent, more in proportion than the small, retails for two dollars per bottle; the large holds a qualtifacture for two dollars per bottle; the large holds a qualtiforty per cent, more in proportion, and retails \$3.

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And sold by all good Druggists and Fancy Goods Dealers.

45-8m

THE WILLIS' STUMP PULLER

THE WILLIS' STUMP PULLER

Is the most powerful and most seconomical machine in use for pulling stumps, and will clear a field in less time than any other invention of a like kind.

Theenty-three stumps have been pulled with this Machine in an hour and fifteen minutes. The undersigned will sell machines and rights to use and manufacture in any part of Michigan except the counties of Hillsdale, Branch, Wayne, Washtenaw, Jackson, Calhoun, Kalamaco, Van Buren, Macomb, Genesee, Bislawssee, Saginaw Puscola and St. Clair, which are aiready soid.

All necessary information as to prices, and mode of using, will be given on application to the country of the country of the country of the country of the property of the country o

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or three men as man and two boys can keep it in an operation.

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cured by it are left as healthy as if they had never had the disease.

Fever and Ague is not alone the consequence of the miasmatic poison. A great variety of disorders arise from its irritation, among which are Neuralgia, Rheumatiam, Gout, Headache, Blindness, Toothache, Earache, Catarrh, Asthma, Falpitation, Painful Affection of the Spleen, Hysterics, Pain in the Bowels, Colle, Paralysis, and Berangement of the Stomen, all of which, when originating in this cause, put on the intermittent type, or become periodical. This "Cure" expels the poison from the blood, and consequently cures them all alike. It is an invaluable protection to immigrants and persons traveling or temporarily residing in the malarious districts. If taken occasionally or daily while exposed to the infection, that will be excreted from the system, and cannot accumulate in sufficient quantity to ripen into disease. Hence it is even more valuable for protection than oure, and few will ever suffer from Intermittents, if they avail themselves of the protection this remedy affords.

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